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May 4, 2016

Mr. John Fortmann, P.E.
Deputy Director of Highways, District One
Illinois Department of Transportation
201 West Center Court
Schaumburg, Illinois 60196-1096

Re: PTB#176-001/Transmittal #032; E & E Project Reference No.: 1009341.0005	
IDOT Job No.: D-91-339-15	PTB: 176-001 / E & E-9
Project Job No.: P-91-128-12	Work Order: 05A
District: 1	BDE Sequence No.: 17704
County: Cook	Requesting Agency: DOH
Municipalities: Chicago, Harwood Heights, Norwood Park	Contract No.: 60Y39
Route: FAI 90	Section No.: (1517&1415)R-3
Marked: I-90	ISGS PESA No.: 2746
Street: Kennedy Expressway	Letting Date: July 29, 2016
From To/At: I-190 to IL 43 (Harlem Ave.)	Final PSI Completion: April 27, 2016

Dear Mr. Fortmann:

Attached is the final preliminary site investigation (PSI) report for contract 60Y39 of the above referenced work order. Ecology and Environment, Inc., (E & E) has revised the draft PSI report based on IDOT's comment letter dated April 29, 2016, and on telephone correspondence between E & E and IDOT on May 3, 2016. If you have any questions regarding this submittal, please contact me at (312) 578-9243.

Sincerely,
Ecology and Environment, Inc.

Dean Tiebout
Program Manager
cc: Jeff Hughes, E & E Chicago
Attachment

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**FINAL
Preliminary Site
Investigation Report
FAI 90 (Interstate 90)
Chicago, Harwood Heights, and
Norwood Park, Cook County,
Illinois**

**PTB No.: 176-001
Work Order No. 05A
IDOT Job No.: D-91-339-15
IDOT Project No.: P-91-128-12
BDE Sequence No.: 17704
Section No.: (1517 & 1415)R-3
Route: FAI 90
ISGS Report No.: 2746
Bid Letting Date: 07/29/2016
Contract No.: 60Y39**

May 4, 2016

Prepared for:



**ILLINOIS DEPARTMENT OF TRANSPORTATION
District One, Region One
201 West Center Court
Schaumburg, Illinois 60196**

Prepared by:



ecology and environment, inc.

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List of Acronyms

bgs	below ground surface
CCDD	clean construction or demolition debris
CD	collector/distributor
COC	contaminant of concern
E & E	Ecology and Environment, Inc.
EB	eastbound
GPS	global positioning system
I-90	Interstate 90
I-190	Interstate 190
IAC	Illinois Administrative Code
IDOT	Illinois Department of Transportation
ILCS	Illinois compiled statutes
ISGS	Illinois State Geological Survey
ITS	Intelligent Transportation Systems
MACs	Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations
MSA	metropolitan statistical area
NELAP	National Environmental Laboratory Accreditation Program
NRCS	Natural Resources Conservation Service
OSHA	Occupational Safety and Health Administration
PAHs	polynuclear aromatic hydrocarbons
PCE	tetrachloroethene
PESA	Preliminary Environmental Site Assessment
PID	photoionization detector

List of Acronyms (Cont.)

PSI	preliminary site investigation
QC	quality control
RCRA	Resource Conservation and Recovery Act
RECs	recognized environmental conditions
ROs	remediation objectives
ROW	right-of-way
SCGIER	soil component of the groundwater ingestion exposure route
SOPs	standard operating procedures
SPLP	synthetic precipitation leaching procedure
SU	standard unit
SVOCs	semi-volatile organic compounds
TACO	Tiered Approach to Corrective Action Objectives
TCE	trichloroethene
TCLP	toxicity characteristic leaching procedure
USFO	uncontaminated soil fill operation
VOCs	volatile organic compounds
WB	westbound

1

Introduction

This preliminary site investigation (PSI) report was prepared for the Illinois Department of Transportation (IDOT) pursuant to work order 05A issued to Ecology and Environment, Inc., (E & E) under the IDOT Work Order Agreement for Consultant Services, PTB No. 176-001— Various Waste Assessments, Various Routes, Various Counties, Region One, District One. E & E was tasked by IDOT to conduct the PSI for proposed construction within existing IDOT right-of-way (ROW) along Interstate 90 (I-90) in Chicago, Harwood Heights, and Norwood Park in Cook County, Illinois.

This report addresses proposed construction activities to be conducted along westbound (WB) I-90 from Interstate 190 (I-190) to Harlem Avenue under contract number 60Y39. Construction activities along eastbound (EB) I-90 were addressed in a separate report.

Field investigation activities were conducted by E & E in February 2016. The objectives of the investigation as defined in the IDOT-approved work plan dated January 11, 2016 (E & E 2016) are as follows:

- Determine the magnitude and the lateral and vertical extent of potential soil contamination within existing IDOT ROW in the proposed construction area. The impact of possible contamination on the uppermost groundwater unit will also be evaluated if groundwater is encountered within the proposed construction zone during the investigation.
- Prepare a site investigation report with findings, conclusions, and recommendations as well as a remediation scope of work, based upon the results of chemical analysis of soil and groundwater samples. The remediation scope of work will include an estimate of the quantity of contaminated soil excavation quantities and an associated estimated cost for remediation. If groundwater has been affected and sufficient data on the extent and source of contamination is available, remedial alternatives will be provided to implement cleanup.
- Assess the potential for surrounding IDOT property within the project area to be affected by contaminants migrating from the affected areas, and present recommendations for the mitigation of contaminant migration when the potential for migration is determined to be high.

This report presents the findings of E & E's investigation and consists of six sections. Section 2 provides pertinent site background information. Section 3 describes the procedures and sampling rationale used during the field investigation. Section 4 summarizes E & E's field investigation results, including observations, field measurements, sampling rationale, analytical results, and comparisons of the analytical results with regulatory standards. Section 5 provides conclusions of the investigation and recommendations for further investigation and contaminant migration reduction techniques, if necessary. Section 6 lists the references cited in this report.

2

Site Background

IDOT construction plans provided to E & E indicate that soil excavation is anticipated for this project to provide an additional travel lane on the existing I-90 alignment, ramp modifications at Cumberland Avenue, and barrier separation between eastbound I-90 and I-190. Improvements include resurfacing and widening, retaining walls, ramps, storm sewer, ditches/swales, noise walls, Intelligent Transportation Systems (ITS)/communication conduit/cable, high mast lighting foundations, sign structures, grading of detention basin, slip ramps, collector/distributor (CD) road and roadway ramps. Excavations associated with the improvements are estimated to extend to a maximum depth of 30 feet below ground surface (bgs). The project construction plans provided to E & E indicate that ROW acquisition is not proposed for this project.

The Illinois State Geological Survey (ISGS) conducted a Preliminary Environmental Site Assessment (PESA) of the project area to identify sites with recognized environmental conditions (RECs) that may potentially affect the project. Table 2-1 presents the sites identified by ISGS, along with the identified RECs and the proposed IDOT construction activities at each site. Applicable background information about the sites, taken directly from ISGS PESA report number 2746, is included as Appendix A. The site investigation area is shown in Figure 2-1.

**Table 2-1 Summary of Investigated Sites
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park
Cook County, Illinois**

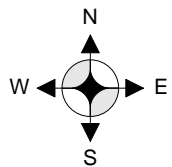
Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition
ISGS #2746-1 IDOT ROW	<p>Fill of unknown composition.</p> <p><i>De minimis</i> conditions include transformers; potential ACM and lead paint.</p>	<p>WB I-90 (Sta 2990+99 to St. 3114+00): Resurfacing and widening of roadway, new construction of slip ramp, CD road and roadway ramps, retaining wall, storm sewer and moment slab for proposed noise wall on Higgins/Bryn Mawr, installation of ITS/Communication conduit and cable, conventional high mast lighting and foundations of sign structures and grading of detention basin. Maximum excavation depth of 30 feet bgs.</p> <p>WB I-190 (Sta 1000+00 to Sta 1019+94): Resurfacing and widening of roadway, new construction of storm sewer and installing foundations of sign structures. Maximum excavation depth of 21 feet bgs.</p> <p>WB I-90 CD Road (Sta 0+00 to Sta 52+50): New construction of collector-distributor road, conventional high mast lighting, storm sewer and ditches/swales, grading of detention basin, and installing foundations of sign structures. Maximum excavation depth of 30 feet bgs.</p>	None
ISGS #2746-1a IDOT ROW (Interchange of I-90 and Cumberland Ave.)	<p>Metals and SVOCs detected in previous PSI testing; former monitoring well.</p> <p><i>De minimis</i> conditions include potential ACM and lead paint.</p>	Cumberland Ramp CC (Sta 800+62.3 to Sta 810+08.5): New construction of roadway ramp and storm sewer. Maximum excavation depth of nine feet bgs.	None
ISGS #2746-1b IDOT ROW (Intersection of I-90 and Canfield Ave.)	<p>Possible USTs; VOCs detected in previous ISGS testing.</p> <p><i>De minimis</i> conditions include potential ACM and lead paint.</p>	WB 1-90 (Sta 3074+00 to Sta. 3077+00): Resurfacing and widening of roadway, new construction of retaining walls and storm sewer, installation of conventional lighting. Maximum excavation depth of 10 feet bgs.	None
ISGS #2746-2 Chicago Transit Authority Tracks	<p>No RECs Identified</p> <p><i>De minimis</i> conditions include potential ACM and lead paint.</p>	WB 1-90 Sta. 105+75 Jacking 60" Storm Sewer: Maximum excavation depth of 17 feet bgs.	None

**Table 2-1 Summary of Investigated Sites
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park
Cook County, Illinois**

Site	Recognized Environmental Conditions (RECs)	Planned Construction Activities	Planned Property Acquisition
ISGS 2746-61 IDOT ROW	Evidence of former chemical use. No <i>de minimis</i> conditions identified.	WB I-90 (Sta 3076+10 to Sta. 3080+49): New construction of moment slab for proposed noise wall on Higgins from south-east corner of Canfield intersection to Canfield WB exit ramp. Maximum excavation depth of two feet bgs.	None

Key:

- bgs = below ground surface.
- ACM = Asbestos-containing material.
- IDOT = Illinois Department of Transportation.
- UST = Underground storage tank.
- VOC = Volatile organic compound.



LEGEND

 - ISGS PESA ROUTE (CONTRACT 60Y39 FOR I-90, WESTBOUND LANES)



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INVESTIGATED AREA

ROUTE: FAI 90 (I-90, WB LANES)
CITY: Chicago, Norridge Park, Harwood Heights, Cook County

SCALE:  0 MILES 0.16

FIGURE NO:
2-1

3

Field Investigation Procedures

E & E followed a project-specific investigative work plan (E & E 2016) in accordance with IDOT-approved standard operating procedures (SOPs) to achieve the objectives stated in Section 1 for the project area. The field investigation for this project included screening and sampling of soil and sampling groundwater at the sites identified in Section 2. This section describes the procedures used for screening, sample collection, equipment decontamination, quality assurance, and sample custody.

3.1 Soil Boring and Sampling Procedures

E & E advanced 66 borings in the proposed construction area. E & E's truck-mounted Geoprobe[®] was used to advance 63 of the borings and a stainless steel hand auger was used to advance 3 borings. A summary of the sampling and analysis program for this PSI is presented in Table 3-1, and boring locations are shown on Figures 3-1 through 3-8. All borings were advanced to their proposed depths, with the following exceptions:

- Boring 2746-01-B46 was completed at a depth of 10 feet, instead of the proposed depth of 11 feet, due to borehole cave-in.
- Boring 2746-01-B53 was completed at a depth of seven feet, instead of the proposed depth of 12 feet, due to geoprobe refusal. Consequently, only one soil sample was collected at this boring instead of the two samples as proposed in the work plan.
- Boring 2746-01B-B02 was completed at a depth of three feet, instead of the proposed depth of 10 feet, due to geoprobe refusal. Consequently, only one soil sample was collected at this boring instead of the two samples as proposed in the work plan.
- Boring 2746-01-B24 was completed at 14 feet, as proposed in the work plan; however, only one soil sample was collected from this boring because E & E encountered groundwater at a depth of 5 feet bgs.

Individual boring locations are identified with a unique alpha-numeric identification code. The first part of the boring identification is the site number designated by ISGS in the PESA (e.g., 2746-01 for ISGS site #2746-1 [IDOT ROW]). Following the ISGS site number is the boring identification number. Borings are

numbered sequentially, with the initial boring at each site designated -B01 (e.g., for ISGS site #2746-1, the initial boring is designated 2746-01 -B01).

Before advancing the borings, E & E personnel marked the proposed boring locations at the site and completed utility clearance. All of the borings were advanced within 10 feet of their proposed locations unless otherwise noted in Table 3-1. E & E used a global positioning system (GPS) receiver to record the actual location of each boring upon its completion.

E & E's Geoprobe[®] was equipped with a 4-foot-long, 2-inch diameter Macro-Core sampler. At locations sampled by the Geoprobe[®], soil cores were collected from each boring by hydraulically pushing the Macro-Core in 4-foot increments. E & E used a new PVC Macro-Core liner for each sample interval and decontaminated the Macro-Core sampler with an Alconox[®] and potable water solution between borings. A stainless steel hand auger was used to advance borings inaccessible with the Geoprobe[®]. The hand auger was decontaminated between boring locations using an Alconox[®] and water solution.

E & E used a calibrated photoionization detector (PID) to conduct headspace screening for volatile organic compounds (VOCs) on an aliquot of soil from each core in 2-foot intervals. The depth interval, recovery, soil description, headspace screening results, and any observations of staining and/or odors indicative of contamination were recorded for each Macro-Core sample. Boring logs for this project are presented in Appendix B.

E & E collected 128 soil samples from the project area for laboratory analysis, including six duplicate samples. E & E relinquished the samples to TestAmerica Laboratories of University Park, Illinois (National Environmental Laboratory Accreditation Program [NELAP] number 100201). Sample identification, documentation, and chain-of-custody were conducted in accordance with the approved SOPs during collection, transportation, storage, and analysis of samples.

3.2 Groundwater Sampling Procedures

E & E encountered groundwater in a sufficient volume to collect a sample in boring 2746-01-B03 at ISGS site #2746-1 (IDOT ROW). In accordance with the work plan, E & E installed a temporary groundwater sampling device and collected a groundwater sample for laboratory analysis.

The temporary groundwater sampling device consisted of a 3.6-foot long, 1-inch outside diameter wire-wound stainless steel screen having a slot width of 0.004 inch. This temporary well screen was telescoped into an outer sheath tipped by an expendable point, then lowered to a point below the static water level in the open borehole using 1.25-inch diameter probe rods. After the sheathed screen was lowered to the target depth, the expendable point was deployed and the sheath was retracted to expose the well screen. Polyethylene tubing was then placed inside the probe rods from the surface and lowered to the well screen to provide

3 Field Investigation Procedures

access to groundwater. Groundwater was pumped to the surface using a peristaltic pump, collected in laboratory-grade sample bottles, packaged, and submitted to the laboratory according to E & E SOPs. The device was removed from the probe hole, and the open hole was filled with soil cuttings and granular bentonite at the completion of sample collection activities.

**Table 3-1 Summary of Sampling and Analysis Program
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Offset from Proposed Location ^a	Boring Depth (feet)	Sample(s)	Matrix	Parameters ^b
ISGS #2746-01 (IDOT ROW)					
2746-01-B01	Not Applicable	15	2746-01-B01 (0-5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B01 (5-10)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B02	Not Applicable	15	2746-01-B02 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B02 (8-15)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B03	Not Applicable	17	2746-01-B03 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B03 (8-12)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-G03	Water	VOC, SVOC, Total Metals
2746-01-B04	Not Applicable	17	2746-01-B04 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B04 (8-17)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B05	Offset 15 feet southeast to avoid utilities.	30	2746-01-B05 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B05 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B05 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B05 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B06	Not Applicable	16	2746-01-B06 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B06 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B07	Not Applicable	30	2746-01-B07 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B07 (0-8) D		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B07 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B07 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B07 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B08	Offset 21 feet south for Geoprobe access.	14	2746-01-B08 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B08 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B09	Not Applicable	30	2746-01-B09 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B09 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B09 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B09 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B10	Offset 50 feet northeast to avoid utilities and gain Geoprobe access.	11	2746-01-B10 (0-6)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B10 (6-11)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B11	Not Applicable	20	2746-01-B11 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B11 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B11 (14-20)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B12	Not Applicable	30	2746-01-B12 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B12 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B12 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B12 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B13	Not Applicable	15	2746-01-B13 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B13 (8-15)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B14	Not Applicable	30	2746-01-B14 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B14 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B14 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B14 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals

**Table 3-1 Summary of Sampling and Analysis Program
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Offset from Proposed Location ^a	Boring Depth (feet)	Sample(s)	Matrix	Parameters ^b
2746-01-B15	Not Applicable	17	2746-01-B15 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B15 (8-17)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B16	Not Applicable	30	2746-01-B16 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B16 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B16 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B16 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B17	Not Applicable	16	2746-01-B17 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B17 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B18	Offset 25 feet north to avoid utilities and gain Geoprobe access.	30	2746-01-B18 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B18 (8-16)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B18 (16-24)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B18 (24-30)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B18 (24-30) D		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B19 ^c	Not Applicable	2	2746-01-B19 (0-2)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B20	Not Applicable	20	2746-01-B20 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B20 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B20 (14-20)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B21	Not Applicable	14	2746-01-B21 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B21 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B22 ^c	Not Applicable	2	2746-01-B22 (0-2)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B23 ^e	Not Applicable	2	2746-01-B23 (0-2)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B24 ^f	Not Applicable	14	2746-01-B24 (0-5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B25	Not Applicable	20	2746-01-B25 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B25 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B25 (14-20)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B26	Not Applicable	8	2746-01-B26 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B26 (0-8) D		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B27	Not Applicable	8	2746-01-B27 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B28	Not Applicable	8	2746-01-B28 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B29	Not Applicable	20	2746-01-B29 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B29 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B29 (14-20)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B30	Offset 28.4 feet north to avoid utilities.	8	2746-01-B30 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B31	Not Applicable	8	2746-01-B31 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B32	Not Applicable	8	2746-01-B32 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B33	Not Applicable	8	2746-01-B33 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B34	Not Applicable	8	2746-01-B34 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals
2746-01-B35	Not Applicable	8	2746-01-B35 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B36	Offset 15.5 feet north to avoid utilities.	8	2746-01-B36 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B37	Not Applicable	8	2746-01-B37 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B38	Offset 15 feet south to avoid utilities.	8	2746-01-B38 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals

**Table 3-1 Summary of Sampling and Analysis Program
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Offset from Proposed Location ^a	Boring Depth (feet)	Sample(s)	Matrix	Parameters ^b
2746-01-B39	Not Applicable	8	2746-01-B39 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B40	Not Applicable	8	2746-01-B40 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B41	Not Applicable	10	2746-01-B41 (0-5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B41 (5-10)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B42	Not Applicable	11	2746-01-B42 (0-6)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B42 (6-11)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B43	Not Applicable	14	2746-01-B43 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B43 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B44	Not Applicable	14	2746-01-B44 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B44 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B45	Not Applicable	14	2746-01-B45 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B45 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B46 ^d	Not Applicable	10	2746-01-B46 (0-5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B46 (5-10)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B47	Offset 31.1 feet east to gain Geoprobe access. Guardrail and soil soil conditions prohibited access.	13	2746-01-B47 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B47 (7-13)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B48	Not Applicable	13	2746-01-B48 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B48 (7-13)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B49	Not Applicable	13	2746-01-B49 (0-6.5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B49 (6.5-13)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B49 (6.5-13) D		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B50	Not Applicable	13	2746-01-B50 (0-6.5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B50 (6.5-13)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B51	Not Applicable	14	2746-01-B51 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B51 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B52	Not Applicable	12	2746-01-B52 (0-6)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B52 (6-12)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B53 ^c	Not Applicable	7	2746-01-B53 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B54	Not Applicable	20	2746-01-B54 (0-7)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B54 (7-14)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B54 (7-14) D		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01-B54 (14-20)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B55	Not Applicable	8	2746-01-B55 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B56	Not Applicable	8	2746-01-B56 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01-B57	Not Applicable	6	2746-01-B57 (0-6)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
ISGS #2746-01A (IDOT ROW - Interchange of I-90 and Cumberland Ave)					
2746-01A-B01	Not Applicable	8	2746-01A-B01 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01A-B02	Not Applicable	8	2746-01A-B02 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01A-B03	Not Applicable	8	2746-01A-B03 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01A-B04	Not Applicable	8	2746-01A-B04 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01A-B05	Not Applicable	8	2746-01A-B05 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals

**Table 3-1 Summary of Sampling and Analysis Program
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Offset from Proposed Location ^a	Boring Depth (feet)	Sample(s)	Matrix	Parameters ^b
ISGS #2746-01B (IDOT ROW - Intersection of I-90 and Canfield Ave)					
2746-01B-B01	Not Applicable	8	2746-01B-B01 (0-8)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-01B-B01 (0-8) D		VOC, SVOC, Total/TCLP Metals, SPLP Metals
2746-01B-B02 ^c	Not Applicable	3	2746-01B-B02 (0-3)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
ISGS #2746-02 (Chicago Transit Authority Tracks)					
2746-02-B01	Not Applicable	18	2746-02-B01 (0-6)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-02-B02 (6-12)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
			2746-02-B02 (12-18)		VOC, SVOC, Total/TCLP Metals, SPLP Metals
ISGS #2746-61 (IDOT ROW)					
2746-61-B01	Not Applicable	5	2746-61-B01 (0-5)	Soil	VOC, SVOC, Total/TCLP Metals, SPLP Metals

Notes:

^a Offsets are shown for borings moved a distance of 10 feet or greater from the proposed location.

^b All of the samples were analyzed for pH and percent solids.

^c Boring terminated at depth due to refusal and only one soil sample collected from the boring.

^d Boring terminated at depth due to cave-in.

^e Boring advanced with stainless steel hand auger or trowel.

^f Only one soil sample collected due to the presence of groundwater.

Key:

ISGS = Illinois State Geological Survey.

SPLP = Synthetic precipitation leaching procedure.

SVOCs = Semivolatile organic compounds.

TAL = Target Analyte List.

TCLP = Toxicity characteristic leaching procedure.

VOCs = Volatile organic compounds.

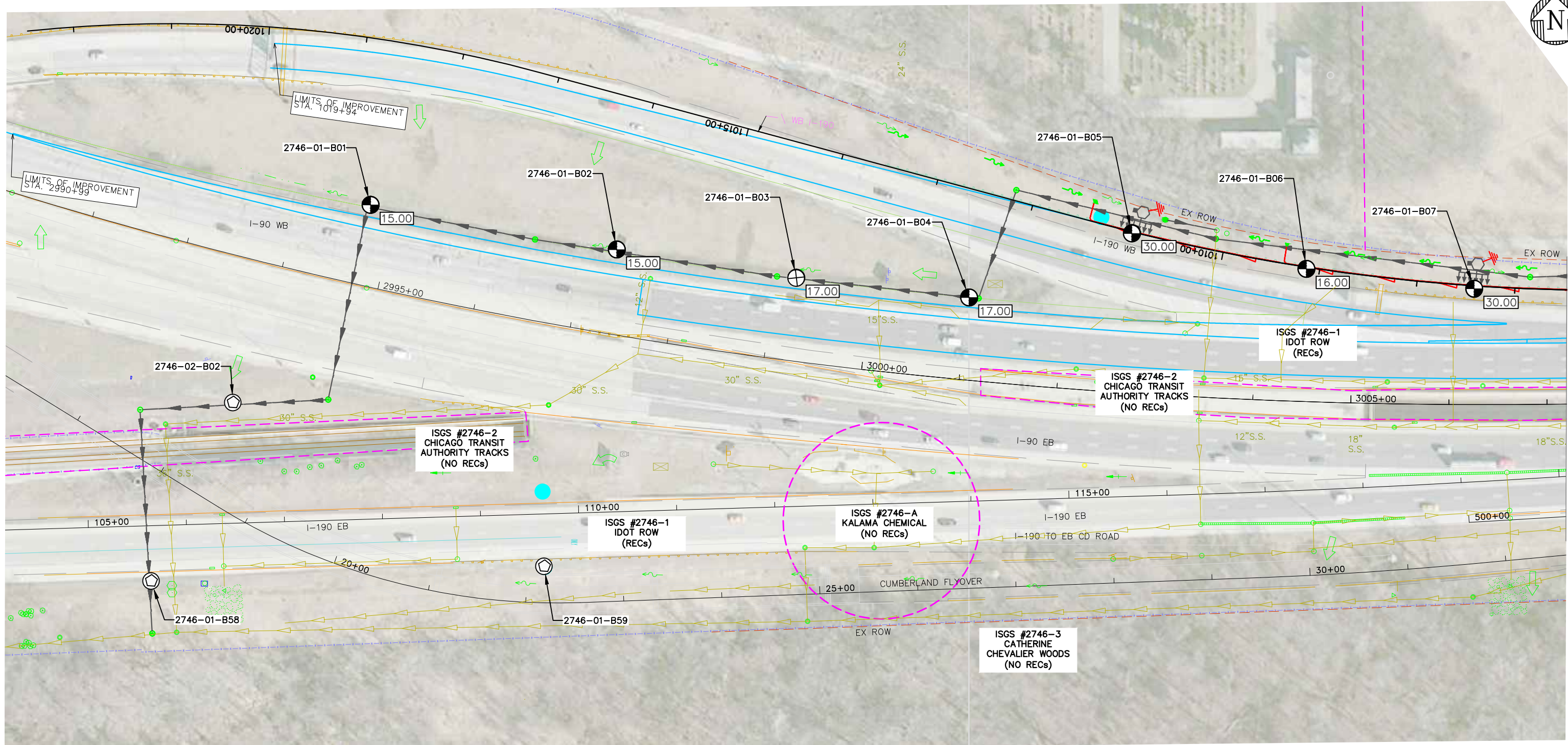
Analysis Methods:

VOCs: SW8260B.

SVOCs: SW8270C.

Total Metals: SW6010B/SW7470A/SW7471A.

TCLP/SPLP Metals: SW6010B/SW7041/SW7470A/SW7841.



MATCHLINE STA. 3007+20 SEE FIGURE 3-2

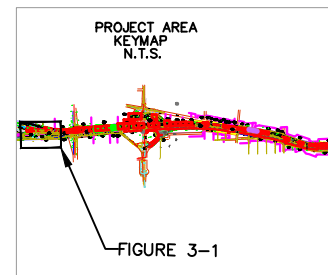
LEGEND

- | | | |
|--|---|-----------------------------------|
| - EXISTING ROAD | - PROPOSED STORM SEWER | - PROPOSED DETENTION POND GRADING |
| - PROPOSED ROAD | - PROPOSED UNDERDRAIN | - EXISTING DITCH |
| - EXISTING CENTERLINES | - PROPOSED SIGN STRUCTURE FOUNDATION | - PROPOSED DITCH |
| - EXISTING ROW | - HIGH MAST LIGHT TOWER FOUNDATION | - EXISTING MANHOLE |
| - PROPOSED ROW | - CAMERA TV FOUNDATION | - PROPOSED MANHOLE |
| - APPROXIMATE PESA SITE BOUNDARY | - CONVENTIONAL LIGHT POLE | |
| - BORING LOCATION | - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL | |
| - TEMPORARY MONITORING WELL LOCATION | - PROPOSED GROUND MOUNTED NOISE BARRIER WALL | |
| - BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38 | - PROPOSED RETAINING WALL | |

SCALE IN FEET



NOTE: CONTRACT 60Y39 COVERS WESTBOUND I-90

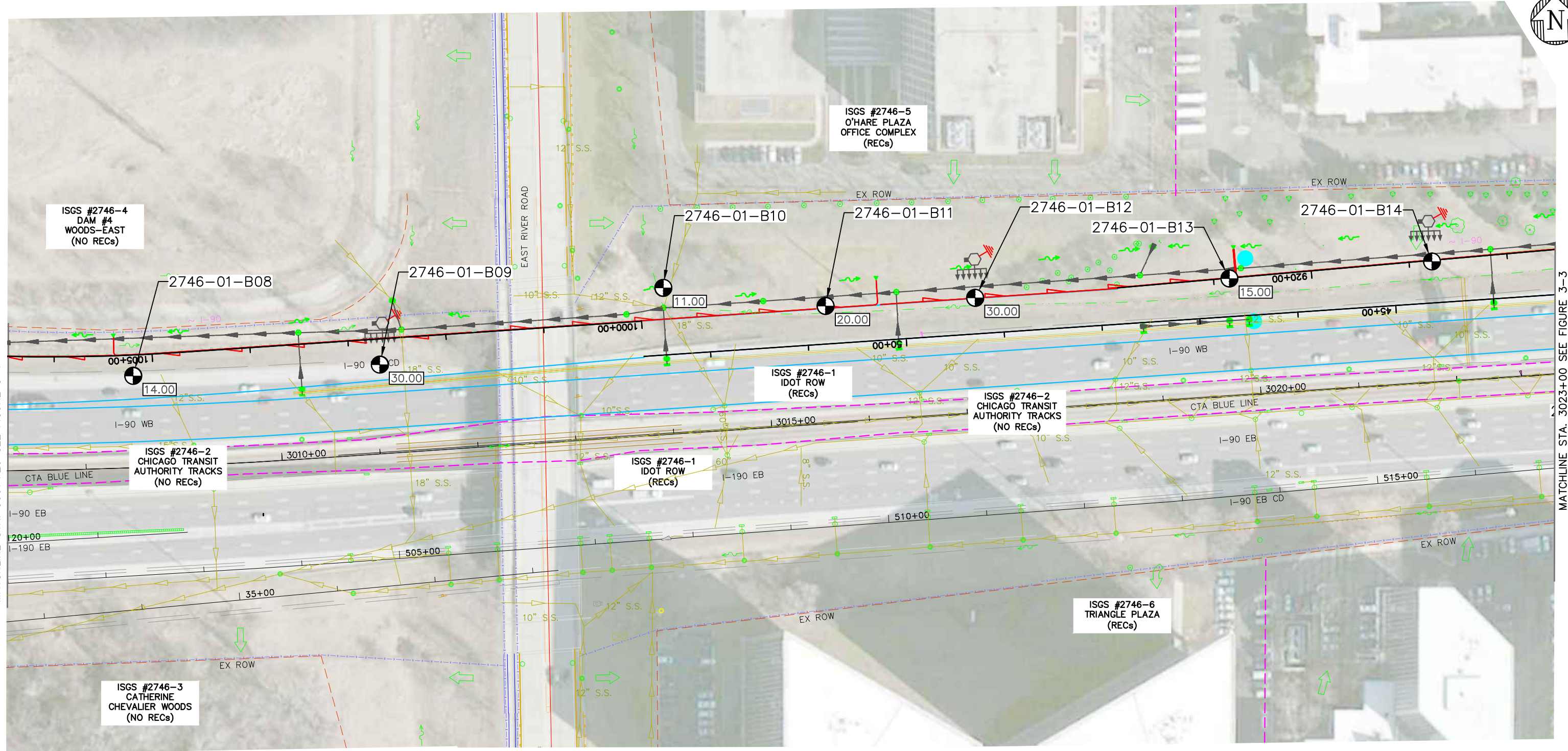


ecology and environment, inc. <small>Global Environmental Specialists</small>		BORING LOCATIONS - CONTRACT 60Y39 FAI 90 (I-90) STA. 2990+99 TO 3007+20			
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15		ROUTE: FAI 90 (I-90)	
		IDOT PROJECT #: P-91-128-12		CITY: CHICAGO/HARWOOD HEIGHTS/NORWOOD PARK	
		WORK ORDER #: 005A		COUNTY: COOK	
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT	SCALE 1" = 100'	DATE ISSUED 3/1/16	C.A.D. FILE NO. EE9 W0005 PSL.DWG	FIGURE NO. 3-1
					REV. 0

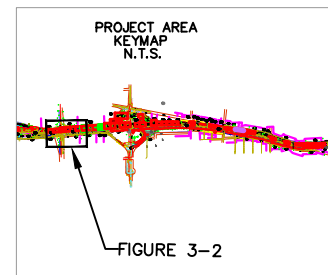
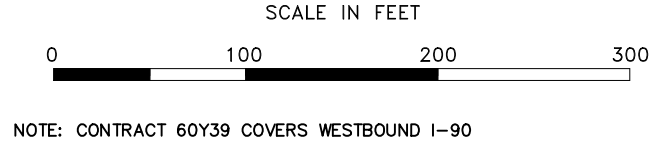


MATCHLINE STA. 3007+20 SEE FIGURE 3-1

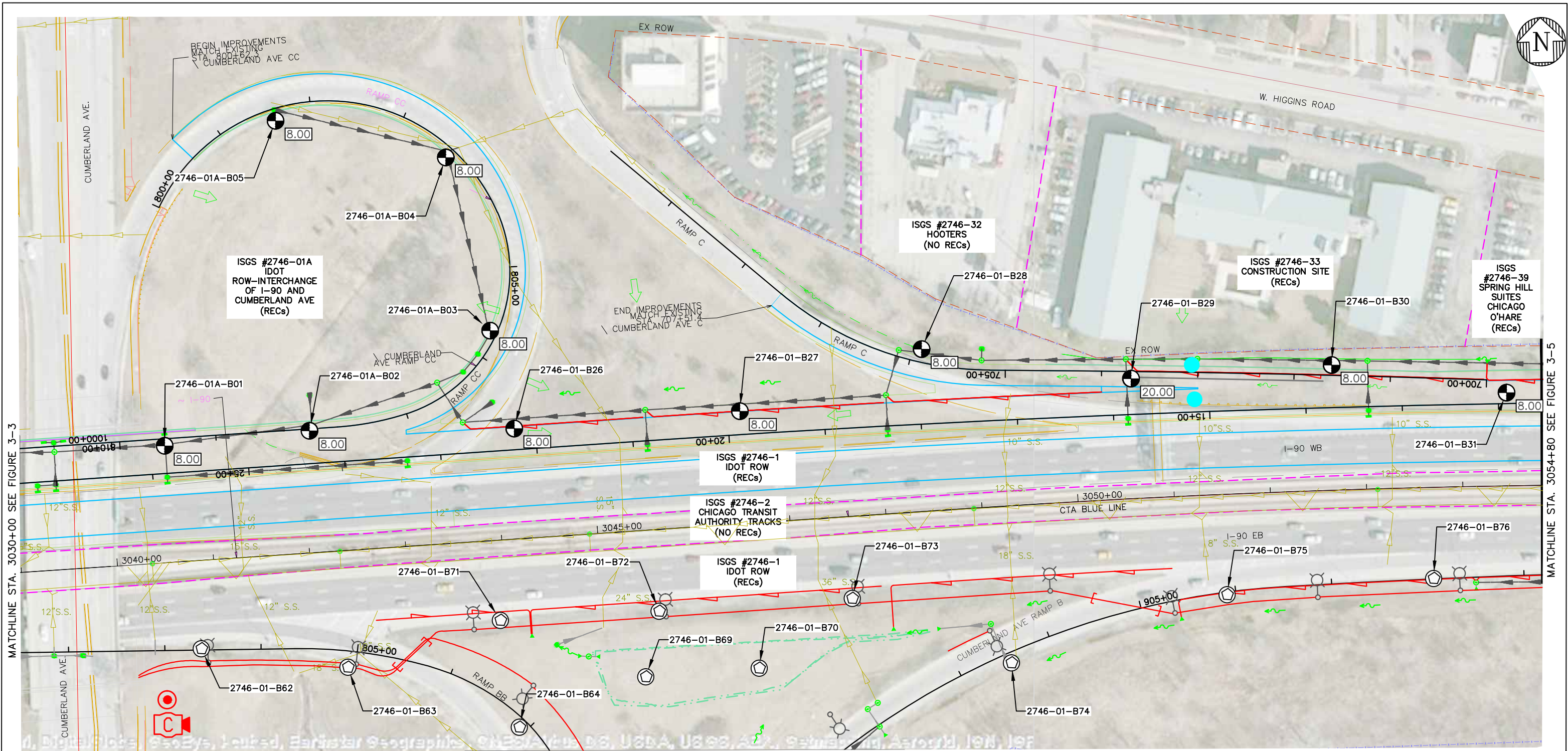
MATCHLINE STA. 3023+00 SEE FIGURE 3-3



LEGEND	
	- EXISTING ROAD
	- PROPOSED ROAD
	- EXISTING CENTERLINES
	- EXISTING ROW
	- PROPOSED ROW
	- APPROXIMATE PESA SITE BOUNDARY
	- BORING LOCATION
	- BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
	- PROPOSED STORM SEWER
	- PROPOSED UNDERDRAIN
	- PROPOSED SIGN STRUCTURE FOUNDATION
	- HIGH MAST LIGHT TOWER FOUNDATION
	- CAMERA TV FOUNDATION
	- CONVENTIONAL LIGHT POLE
	- PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
	- PROPOSED GROUND MOUNTED NOISE BARRIER WALL
	- PROPOSED RETAINING WALL
	- PROPOSED DETENTION POND GRADING
	- EXISTING DITCH
	- PROPOSED DITCH
	- EXISTING MANHOLE
	- PROPOSED MANHOLE



		BORING LOCATIONS - CONTRACT 60Y39 FAI 90 (I-90) STA. 3007+20 TO 3023+00			
DESIGNED BY:	CHECKED BY:	PTB/JOB #:		ROUTE:	
S. COOPER	J. JENKINS	176-001/D-91-339-15		FAI 90 (I-90)	
DRAWN BY:	APPROVED BY:	IDOT PROJECT #:		CITY:	
J. JENKINS	D. TIEBOUT	P-91-128-12		CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK	
		WORK ORDER #:		COUNTY:	
		005A		COOK	
SCALE	DATE ISSUED	C.A.D. FILE NO.	FIGURE NO.	REV.	
1" = 100'	3/1/16	EE9 W0005 PSI.DWG	3-2	0	



MATCHLINE STA. 3030+00 SEE FIGURE 3-3

MATCHLINE STA. 3054+80 SEE FIGURE 3-5

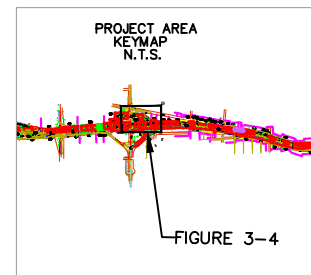
LEGEND

- | | | | | | |
|--|--|--|---|--|-----------------------------------|
| | - EXISTING ROAD | | - PROPOSED STORM SEWER | | - PROPOSED DETENTION POND GRADING |
| | - PROPOSED ROAD | | - PROPOSED UNDERDRAIN | | - EXISTING DITCH |
| | - EXISTING CENTERLINES | | - PROPOSED SIGN STRUCTURE FOUNDATION | | - PROPOSED DITCH |
| | - EXISTING ROW | | - HIGH MAST LIGHT TOWER FOUNDATION | | - EXISTING MANHOLE |
| | - PROPOSED ROW | | - CAMERA TV FOUNDATION | | - PROPOSED MANHOLE |
| | - APPROXIMATE PESA SITE BOUNDARY | | - CONVENTIONAL LIGHT POLE | | |
| | - BORING LOCATION | | - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL | | |
| | - BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38 | | - PROPOSED GROUND MOUNTED NOISE BARRIER WALL | | |
| | | | - PROPOSED RETAINING WALL | | |

SCALE IN FEET

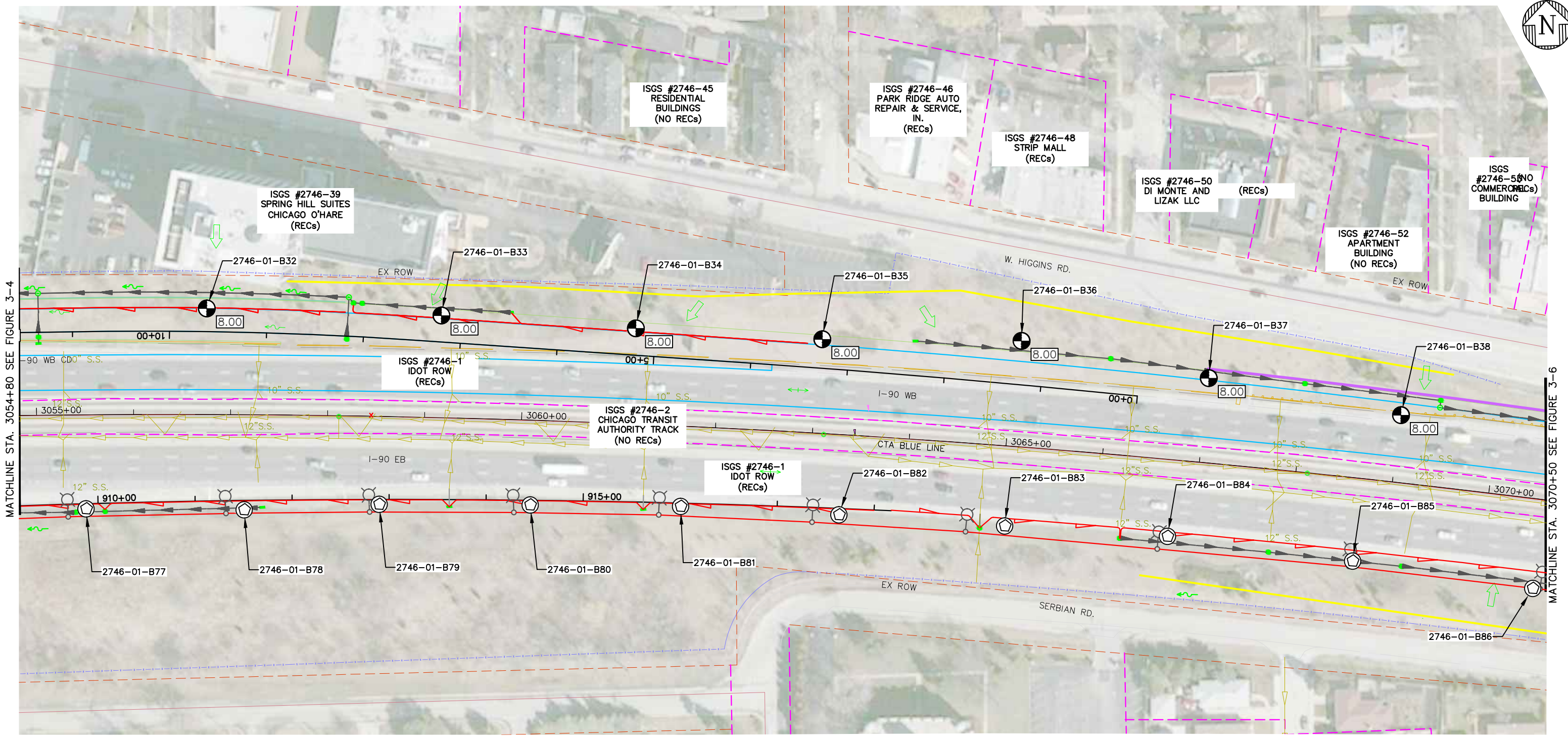


NOTE: CONTRACT 60Y39 COVERS WESTBOUND I-90



ecology and environment, inc. Global Environmental Specialists	
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT

BORING LOCATIONS - CONTRACT 60Y39 FAI 90 (I-90) STA. 3039+00 TO 3054+80				
PTB/JOB #: 176-001/D-91-339-15		ROUTE: FAI 90 (I-90)		
IDOT PROJECT #: P-91-128-12		CITY: CHICAGO/HARWOOD HEIGHTS/NORWOOD PARK		
WORK ORDER #: 005A		COUNTY: COOK		
SCALE 1" = 100'	DATE ISSUED 3/1/16	C.A.D. FILE NO. EE9 W0005 PSL.DWG	FIGURE NO. 3-4	REV. 0



MATCHLINE STA. 3054+80 SEE FIGURE 3-4

MATCHLINE STA. 3070+50 SEE FIGURE 3-6

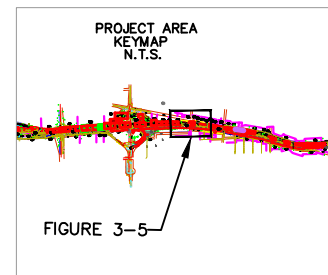
LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING CENTERLINES
- EXISTING ROW
- PROPOSED ROW
- APPROXIMATE PESA SITE BOUNDARY
- BORING LOCATION
- BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED SIGN STRUCTURE FOUNDATION
- HIGH MAST LIGHT TOWER FOUNDATION
- CAMERA TV FOUNDATION
- CONVENTIONAL LIGHT POLE
- PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
- PROPOSED GROUND MOUNTED NOISE BARRIER WALL
- PROPOSED RETAINING WALL
- PROPOSED DETENTION POND GRADING
- EXISTING DITCH
- PROPOSED DITCH
- EXISTING MANHOLE
- PROPOSED MANHOLE

SCALE IN FEET



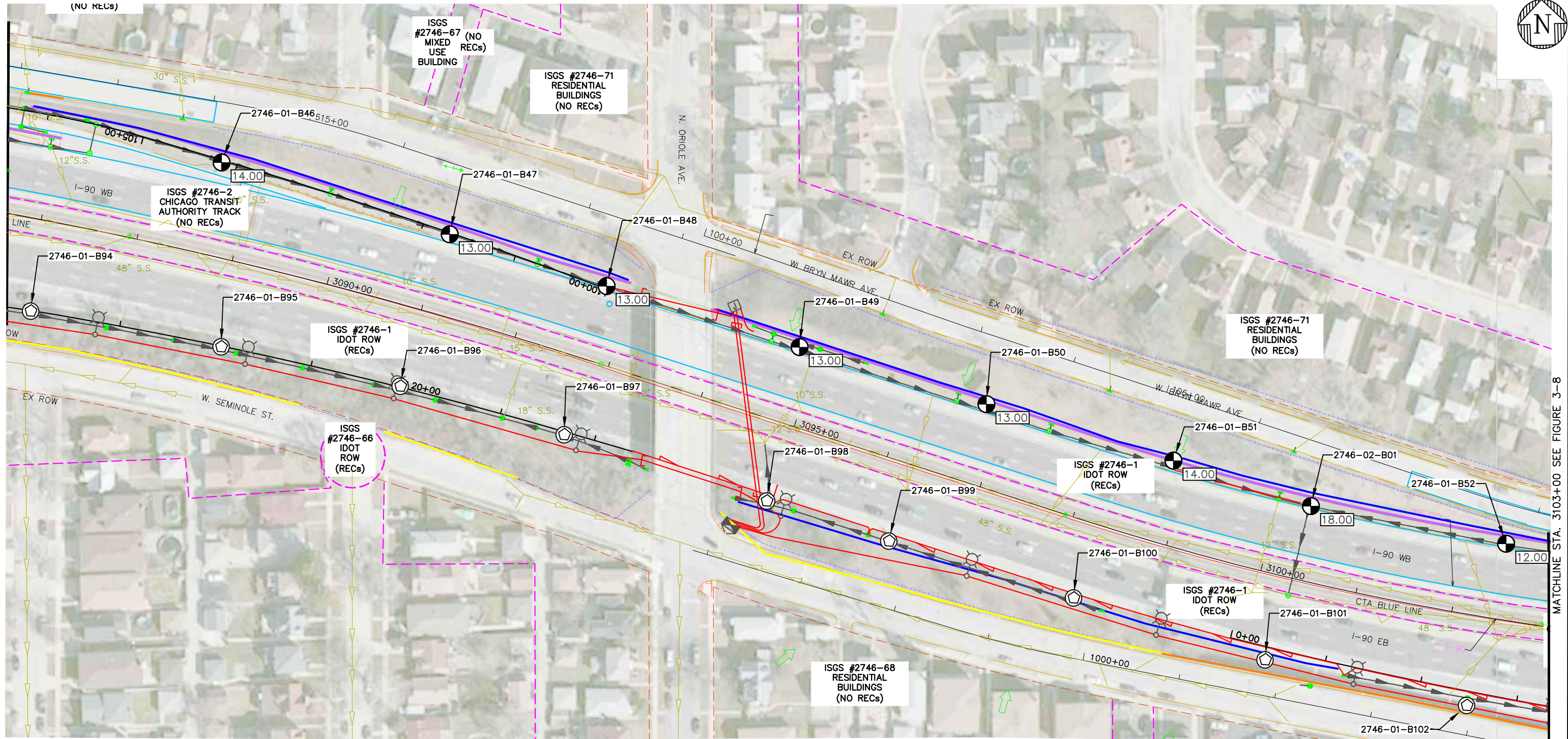
NOTE: CONTRACT 60Y39 COVERS WESTBOUND I-90



ecology and environment, inc. <small>Global Environmental Specialists</small>		BORING LOCATIONS CONTRACT 60Y39 FAI 90 (I-90) STA. 3054+80 TO 3070+50			
DESIGNED BY:	CHECKED BY:	PTB/JOB #:		ROUTE:	
S. COOPER	J. JENKINS	176-001/D-91-339-15		FAI 90 (I-90)	
DRAWN BY:	APPROVED BY:	IDOT PROJECT #:	CITY:	COUNTY:	
J. JENKINS	D. TIEBOUT	P-91-128-12	CHICAGO/HARWOOD HEIGHTS/NORWOOD PARK	COOK	
WORK ORDER #:	SCALE:	DATE ISSUED:	C.A.D. FILE NO.:	FIGURE NO.:	REV.:
005A	1" = 100'	3/1/16	EE9 W0005 PSI.DWG	3-5	0

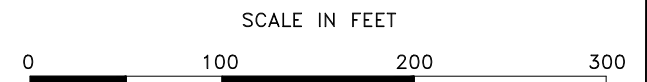
MATCHLINE STA. 3086+65 SEE FIGURE 3-6

MATCHLINE STA. 3103+00 SEE FIGURE 3-8

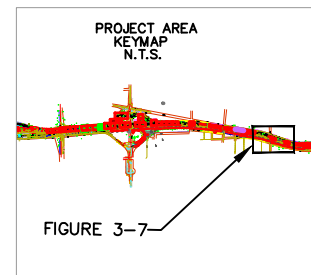


LEGEND

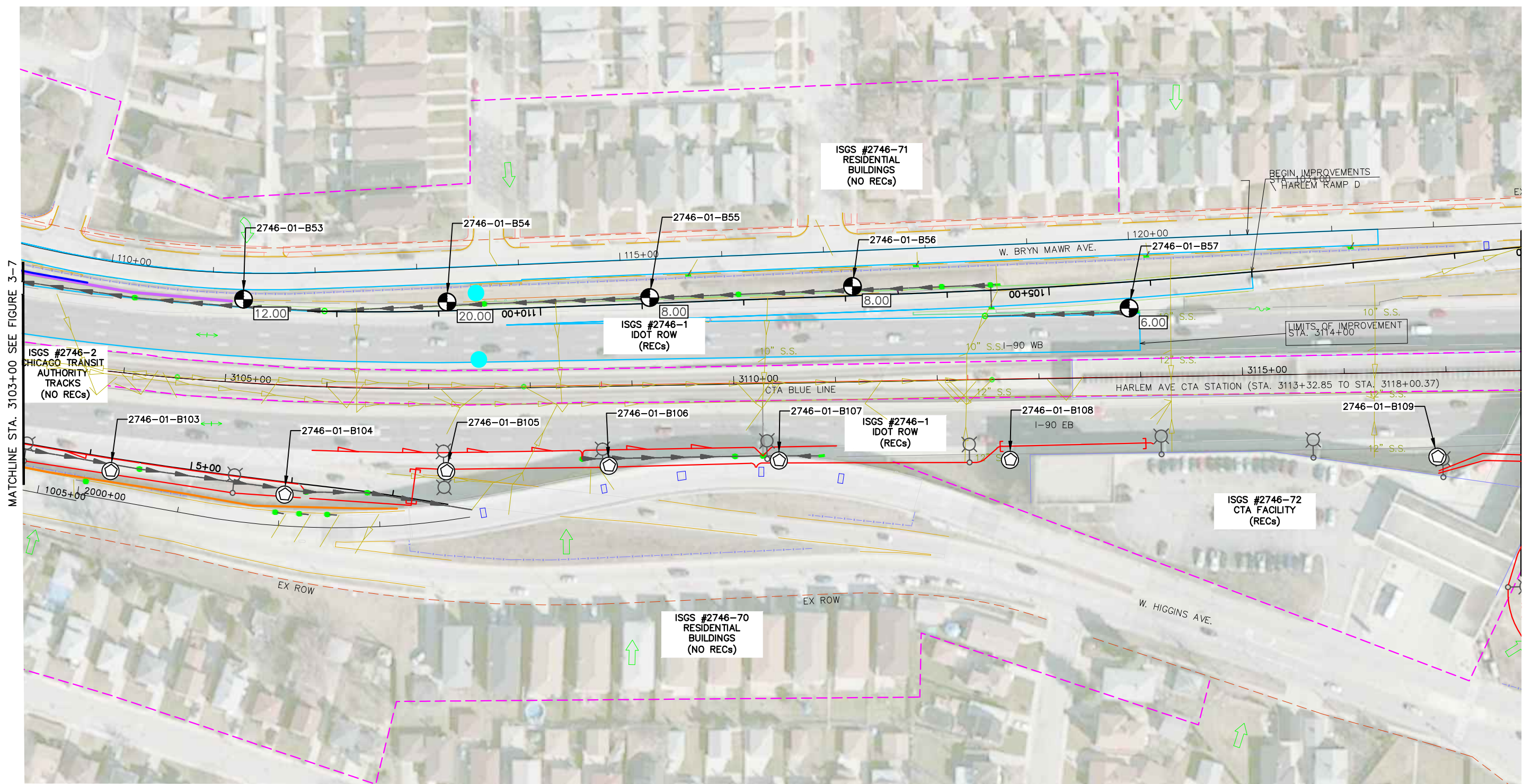
- | | | | | | |
|--|--|--|---|--|-----------------------------------|
| | - EXISTING ROAD | | - PROPOSED STORM SEWER | | - PROPOSED DETENTION POND GRADING |
| | - PROPOSED ROAD | | - PROPOSED UNDERDRAIN | | - EXISTING DITCH |
| | - EXISTING CENTERLINES | | - PROPOSED SIGN STRUCTURE FOUNDATION | | - PROPOSED DITCH |
| | - EXISTING ROW | | - HIGH MAST LIGHT TOWER FOUNDATION | | - EXISTING MANHOLE |
| | - PROPOSED ROW | | - CAMERA TV FOUNDATION | | - PROPOSED MANHOLE |
| | - APPROXIMATE PESA SITE BOUNDARY | | - CONVENTIONAL LIGHT POLE | | |
| | - BORING LOCATION | | - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL | | |
| | - BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38 | | - PROPOSED GROUND MOUNTED NOISE BARRIER WALL | | |
| | | | - PROPOSED RETAINING WALL | | |



NOTE: CONTRACT 60Y39 COVERS WESTBOUND I-90

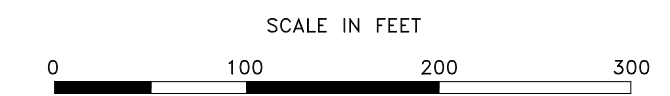


ecology and environment, inc. Global Environmental Specialists		BORING LOCATIONS FAI 90 (I-90) STA. 3086+65 TO 3103+00			
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15	ROUTE: FAI 90 (I-90)		
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT	IDOT PROJECT #: P-91-128-12	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK		
		WORK ORDER #: 005A	COUNTY: COOK		
SCALE: 1" = 100'	DATE ISSUED: 3/1/16	C.A.D. FILE NO. EE9 W0005 PSI.DWG	FIGURE NO. 3-7	REV. 0	

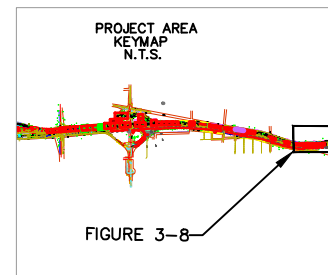


LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING CENTERLINES
- EXISTING ROW
- PROPOSED ROW
- APPROXIMATE PESA SITE BOUNDARY
- BORING LOCATION
- BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED SIGN STRUCTURE FOUNDATION
- HIGH MAST LIGHT TOWER FOUNDATION
- CAMERA TV FOUNDATION
- CONVENTIONAL LIGHT POLE
- PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
- PROPOSED GROUND MOUNTED NOISE BARRIER WALL
- PROPOSED RETAINING WALL
- PROPOSED DETENTION POND GRADING
- EXISTING DITCH
- PROPOSED DITCH
- EXISTING MANHOLE
- PROPOSED MANHOLE



NOTE: CONTRACT 60Y39 COVERS WESTBOUND I-90



ecology and environment, inc. <small>Global Environmental Specialists</small>		BORING LOCATIONS CONTRACT 60Y39 FAI 90 (I-90) STA. 3103+00 TO 3117+75			
DESIGNED BY:	CHECKED BY:	PTB/JOB #: 176-001/D-91-339-15		ROUTE: FAI 90 (I-90)	
S. COOPER	J. JENKINS	IDOT PROJECT #: P-91-128-12		CITY: CHICAGO/HARWOOD HEIGHTS/NORWOOD PARK	
DRAWN BY:	APPROVED BY:	WORK ORDER #: 005A		COUNTY: COOK	
J. JENKINS	D. TIEBOUT	SCALE	DATE ISSUED	C.A.D. FILE NO.	FIGURE NO.
		1" = 100'	3/1/16	EE9 W0005 PSI.DWG	3-8
					REV.
					0

4

Field Investigation Results

This section presents the results of E & E's field investigation and includes a discussion of project area geology and topography, significant field observations, sampling rationale, and laboratory analytical results relative to applicable criteria.

E & E's field observations and sample selection rationale are summarized by site and boring in Table 4-1. Soil samples collected for laboratory analysis were analyzed for VOCs, semi-volatile organic compounds (SVOCs), and total and toxicity characteristic leaching procedure (TCLP) metals listed in 35 Illinois Administrative Code (IAC) 1100, Subpart F. Selected samples were analyzed for individual metals by synthetic precipitation leaching procedure (SPLP) analysis, based on TCLP analysis results, as discussed below. Groundwater samples collected for laboratory analysis were analyzed for VOCs, SVOCs, and total metals.

Laboratory results were reviewed by E & E for field and laboratory precision, accuracy, and completeness in accordance with procedures and quality control (QC) limits. The maximum detected concentrations of analytes in soil and a comparison with applicable reference concentrations are presented by site in Table 4-2. The maximum detected concentrations of analytes in groundwater are presented and compared with applicable reference concentrations in Table 4-3. Analytes detected at concentrations above applicable reference concentrations are considered contaminants of concern (COCs). A discussion of the analytical results is presented below, and a summary of detected analytes is presented in Appendix C. Laboratory data packages, including E & E's data review, are included as Appendix D.

The detected analyte concentrations in soil are compared with the Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MACs) presented in 35 IAC 1100, Subpart F. When the MAC for an inorganic analyte is based on the Tiered Approach to Corrective Action Objectives (TACO) Class I soil component of the groundwater ingestion exposure route (SCGIER) presented in 35 IAC 742, Appendix B, Table C, the total concentration for the analyte is compared with the MAC, and the results of TCLP and SPLP analyses are independently compared with the TACO Class I SCGIER for the analyte found in 35 IAC 742, Appendix B, Table A. The analyte is considered to exceed the MAC if the total, TCLP, and SPLP results all exceed the applicable reference concentrations.

When the MAC for a constituent is location-specific, the detected constituent concentration is also compared with the MAC for a metropolitan statistical area (MSA) and/or the MAC for Chicago corporate limits. Location-specific MACs have been established for arsenic, iron, manganese, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Analytes detected at concentrations above applicable reference criteria in project area soil are considered COCs and are presented in Table 4-4.

E & E also evaluated sample pH levels and the results of PID headspace screening pursuant to 35 IAC 1100.201(g) and 205(b)(1), respectively. Soil pH must be between 6.25 and 9.0 standard units (SU) in order for the soil to be accepted at a clean construction or demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO). In addition, loads of soil exhibiting PID readings above background cannot be accepted by a CCDD facility or USFO.

Aggregate volumes of impacted soil are estimated without regard for property boundaries or planned excavation activities and are presented in Table 4-5. The following general assumptions were used to estimate impacted soil volumes for applicable COCs:

- Affected volumes can be estimated using simple geometric shapes.
- For VOCs, the vertical extent of contamination is assumed to include the interval where the exceedance was detected and contiguous intervals that exhibit a headspace VOC reading above background. Other evidence of contamination such as staining and odor is also taken into consideration.
- When only one sample is collected in a boring, the vertical extent of contamination for SVOCs and inorganic analytes is assumed to extend from the ground surface through the depth interval where the exceedance was observed to the maximum depth of the boring. If multiple samples were collected in a boring, the vertical extent of contamination will be determined based on the sample intervals exhibiting results above MACs or the top of the deepest soil interval demonstrating no MAC exceedances, along with observations of staining, odors, or fill containing material such as slag or cinders that may be a potential source of the detected COCs.
- The horizontal extent of impacted soil at an individual boring is represented by a rectangle centered on the boring and extending from the roadway centerline to the construction limit. The rectangle will extend laterally one-half the distance between the affected boring and the next adjacent boring that does not contain the compound or analyte above applicable criteria. If no adjacent borings are present, the rectangle will extend laterally 50 feet in each direction.

When one or more COCs are detected in a boring, the impacted soil excavation quantities for construction are estimated based on the assumption that the

impacted soil extends from the ground surface to the proposed excavation depth for the construction feature within the aggregate area.

E & E's field investigation was designed to provide an initial characterization of site conditions at pre-designated boring locations. The investigation was limited in terms of analytical parameters and the number of samples collected, based on the site information presented in ISGS PESA #2746. Consequently, the findings and conclusions of this investigation are subject to revision if more site data become available.

4.1 Project Area Geology and Topography

E & E advanced 66 soil borings for this project to depths ranging from approximately 2 to 30 feet bgs. Observations of subsurface materials in the project area are described for each of the soil borings in Appendix B. The following information was provided by ISGS PESA #2746:

The topmost bedrock unit in the project area has been mapped as undifferentiated rocks of Silurian age, which in this area consist primarily of limestones and dolomites.

The total thickness of surficial deposits is 15-30 meters (50-100 feet) in the western project area and 30-60 meters (100-200 feet) in the eastern project area. In the west project area, the uppermost formation is the Peoria and Roxana Silt of the Mason Group, which is a discontinuous layer of silt that is less than 6 meters (20 feet) thick. Beneath the Peoria and Roxana Silt is the Henry Formation of the Mason Group, which is less than 6 meters (20 feet) thick and consists of stratified silt and gravel. Beneath the Henry Formation is the Wedron Group, which is greater than 15 meters (20 feet) thick and described as silty and clayey glacial material. In the east project area, the uppermost formation is the Wedron Group, which is greater than 6 meters (20 feet) thick and described as silty and clayey glacial material. Along the project ROW, the Natural Resources Conservation Service (NRCS) has classified the Milford silty clay loam, 0-2% slopes, as hydric. The NRCS has classified the Urban land; the Urban land-Orthents, clayey, complex, nearly level; the Orthents, clayey, undulating; the Urban land-Alfic Udarents, clayey, complex, 0-2% slopes; and the Alfic Udarents, clayey-Urban land-Elliott complex, 0-2% slopes, as non-prime farmland

Surficial drainage in the project area is generally toward the west, in the direction of the Des Plaines River. However, since the project area is urbanized and storm drains and sewers are present, most surficial runoff will be controlled by the storm sewer system; such systems typically are designed to follow natural drainage patterns. Neither the near-surface nor the shallow unconfined groundwater flow direction was specifically determined for this project, but they generally mimic local topography.

E & E observed fill material (i.e., silt/sand/gravel/clay mixtures, topsoil, asphalt, and concrete) in most of the borings advanced during this investigation. Native material (i.e., undisturbed soil) was also observed in most of the borings, and consisted of stiff, brown and gray, silty clay and clay with variable amounts of gravel. Sand and gravel, sand, and silty sands were encountered between fill material and native clays in the western portion of the project area. Groundwater was encountered in three borings (2746-01-B01, 2746-01-B03, and 2746-01-B24) advanced during E & E's investigation. At borings 2746-01-B01 and 2746-01-B03, groundwater was encountered in a sand and gravel unit at depths of 10 feet and nine feet bgs, respectively. This perched zone did not produce a sufficient volume to sample at boring 2746-01-B01, but a sufficient sampling volume was obtained at boring 2746-01-B03. Groundwater was encountered at boring 2746-01-B24 in a sand unit at a depth of five feet bgs. Bedrock was not encountered in any of the borings.

4.2 ISGS #2746-1 (IDOT ROW)

4.2.1 Field Observations at ISGS #2746-1

E & E advanced 57 borings (2746-01-B01 through 2746-01-B57) at #2746-1 (IDOT ROW) (see Table 4-1 and Figures 4-1 through 4-8A). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected a total of 116 soil samples at the site. The number of samples collected per boring is presented in Table 4-1. Duplicate samples were collected from borings 2746-01-B07, 2746-01-B18, 2746-01-B26, 2746-01-B49, and 2746-01-B54. One groundwater sample (2746-01-G03) was collected at boring 2746-01-B03.

4.2.2 Analytical Results for ISGS #2746-1

4.2.2.1 Soil

Four VOCs (2-butanone, acetone, tetrachloroethene, and trichloroethene) were detected in the samples from this site (see Table 4-2). Chlorinated VOCs tetrachloroethene (PCE) and trichloroethene (TCE) were detected in sample 2746-01-B23 (0-2); PCE was also detected in sample 2746-01-B25 (0-7). The chlorinated VOCs were not detected in any of the other site samples.

Twenty-two SVOCs, primarily PAHs, were detected in the site samples. Twenty-three metals were detected in the site samples, and 10 of the metals were detected by TCLP analysis. Based on the TCLP metals results, 115 of the samples were analyzed for SPLP manganese; 14 of the samples were analyzed for SPLP lead; two of the samples were analyzed for SPLP cadmium; and one sample each was analyzed for SPLP zinc, and SPLP boron. Boron, lead, manganese, and zinc were detected by SPLP analysis. SPLP manganese was detected in 114 of the 115 samples analyzed. Lead was detected in 12 samples by SPLP analysis. The sample pH levels ranged from 6.78 to 9.17 SU.

4.2.2.2 Groundwater

Analysis of the groundwater sample revealed the presence of bis(2-ethylhexyl)-phthalate and 18 metals (see Table 4-3 for analytes detected in groundwater). VOCs were not detected in the groundwater sample.

4.2.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #2746-1

4.2.3.1 Soil

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, lead, manganese were detected above reference concentrations in soil at the site. A complete list of COCs is presented by boring in Table 4-4.

Eight borings contained one or more COCs at concentrations above all applicable reference criteria. The borings with COCs that exceeded all applicable criteria are as follows:

- 2746-01-B01 (manganese)
- 2746-01-B04 (lead)
- 2746-01-B10 (copper and lead)
- 2746-01-B16 (benzo(a)anthracene and benzo(b)fluoranthene)
- 2746-01-B23 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene)
- 2746-01-B35 (arsenic)
- 2746-01-B44 (lead), and
- 2746-01-B56 (lead)

The copper concentration detected at boring 2746-01-B10, benzo(a)anthracene and benzo(b)fluoranthene concentrations detected in boring 2746-01-B16, PAH concentrations detected in boring 2746-01-B23, arsenic in boring 2746-01-B35, and lead in borings 2746-01-B44 and 2746-01-B56 also exceeded the respective TACO Tier 1 soil remediation objectives (ROs) for residential properties.

Thirty-three borings contained one or more COCs at concentrations above the most stringent reference criteria, but below MSA and Chicago MACs, and/or TCLP/SPLP metals concentrations that exceed the TACO Tier 1 ROs for the SCGIER without corresponding exceedances of the total metals concentrations. The borings and COCs meeting those criteria are as follows:

- 2746-01-B02 (TCLP/SPLP manganese)
- 2746-01-B03 (benzo(a)pyrene and TCLP/SPLP manganese)
- 2746-01-B05 (TCLP/SPLP manganese)
- 2746-01-B07 (TCLP/SPLP lead and TCLP/SPLP manganese)

- 2746-01-B08 (TCLP/SPLP manganese)
- 2746-01-B09 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B11 (TCLP/SPLP manganese)
- 2746-01-B12 (TCLP/SPLP manganese)
- 2746-01-B13 (TCLP/SPLP manganese)
- 2746-01-B14 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, TCLP/SPLP manganese)
- 2746-01-B15 (TCLP/SPLP manganese)
- 2746-01-B18 (TCLP/SPLP manganese)
- 2746-01-B19 (TCLP/SPLP manganese)
- 2746-01-B20 (TCLP/SPLP manganese)
- 2746-01-B22 (Benzo(a)pyrene and TCLP/SPLP manganese)
- 2746-01-B24 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B25 (Benzo(a)pyrene and TCLP/SPLP manganese)
- 2746-01-B26 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B28 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B29 (TCLP/SPLP manganese)
- 2746-01-B30 (TCLP/SPLP manganese)
- 2746-01-B31 (benzo(a)pyrene, TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B32 (TCLP/SPLP manganese)
- 2746-01-B39 (TCLP/SPLP manganese)
- 2746-01-B40 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B41 (TCLP/SPLP manganese)
- 2746-01-B43 (TCLP/SPLP manganese)
- 2746-01-B45 (TCLP/SPLP manganese)
- 2746-01-B49 (TCLP/SPLP manganese)
- 2746-01-B53 (TCLP/SPLP manganese)
- 2746-01-B54 (TCLP/SPLP manganese)
- 2746-01-B55 (TCLP/SPLP lead), and
- 2746-01-B57 (TCLP/SPLP manganese).

Sixteen of the site borings did not contain COCs at concentrations above applicable criteria. Organic analytes detected in the borings were below the most stringent MACs and metals did not exceed MACs and/or TACO Tier 1 ROs for the SCGIER (by both TCLP and SPLP analysis), where applicable. Those borings are as follows.

- 2746-01-B06

- 2746-01-B17
- 2746-01-B21
- 2746-01-B27
- 2746-01-B33
- 2746-01-B34
- 2746-01-B36
- 2746-01-B37
- 2746-01-B38
- 2746-01-B42
- 2746-01-B46
- 2746-01-B47
- 2746-01-B48
- 2746-01-B50
- 2746-01-B51, and
- 2746-01-B52.

VOCs were not detected during headspace screening of site soil. The pH levels for samples 2746-01-B14 (0-8), 2746-01-B16 (0-8), and 2746-01-B17 (0-8) exceeded the acceptable range for management of the soil at a CCDD facility or USFO. The pH levels for the remaining samples were within the acceptable range for management of the soil at a CCDD facility or USFO.

4.2.3.2 Groundwater

Manganese and iron were detected above TACO Tier 1 ROs in groundwater sample 2746-01-G03. The detected manganese concentration exceeded the Tier 1 RO for Class 1 groundwater, and the detected iron concentration exceeded the Tier 1 ROs for Class 1 and Class 2 groundwater (see Table 4-3).

4.2.4 IDOT Construction Activities at ISGS #2746-1

4.2.4.1 Soil

Planned construction activities at this site include roadway resurfacing and widening; storm sewer installation; high mast, sign structure, and installation of camera TV foundations; a noise barrier; and a retention wall (see Figures 4-1 through 4-8B). Excavations associated with the improvements are estimated to extend to a maximum depth of 30 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-1 through 4-8B. Table 4-6 presents the total volume of soil anticipated for excavation at the site along with an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site.

4.2.4.2 Groundwater

Groundwater was encountered at a depth of nine feet bgs in boring 2746-01-B03. Excavation in the vicinity of the boring is proposed to an approximate depth of 17 feet bgs for storm sewer installation; consequently, it is anticipated that groundwater will be encountered during construction at the site. Table 4-7 presents an estimated volume of groundwater that is anticipated to be encountered during excavation in the vicinity of boring 2746-01-B03.

4.3 ISGS #2746-1a (IDOT ROW – Interchange of I-90 and Cumberland Ave.)

4.3.1 Field Observations at ISGS #2746-1a

E & E advanced five borings (2746-01A-B01 through 2746-01A-B05) at ISGS #2746-1a (IDOT ROW – Interchange of I-90 and Cumberland Ave.) (see Table 4-1 and Figure 4-4A). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit discoloration or odors indicative of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis. One groundwater sample was proposed for collection at the site; however, groundwater was not encountered in any of the borings.

4.3.2 Analytical Results for ISGS #2746-1a

Acetone was detected in sample 2746-01A-B03 (0-8) and was the only VOC detected in soil from this site (see Table 4-2). Seventeen SVOCs, all PAHs, were detected in the site samples. Twenty-one metals were detected in the site samples, and eight of the metals were detected by TCLP analysis. Based on the TCLP metals results, all of the samples were analyzed for SPLP manganese; and samples 2746-01A-B03 (0-8) and 2746-01A-B04 (0-8) were also analyzed for SPLP lead. SPLP manganese was detected in all of the samples, except for sample 2746-01A-B01. SPLP lead was detected in samples 2746-01A-B03 (0-8) and 2746-01A-B04 (0-8). The sample pH levels ranged from 7.52 to 8.89 SU.

4.3.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #2746-1a

Benzo(a)pyrene, arsenic, lead, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). The benzo(a)pyrene concentration detected in sample 2746-1A-B03 (0-8) exceeded the most stringent MAC, but was below the MSA and Chicago MACs. The total arsenic concentration detected in sample 2746-01A-B04 (0-8) exceeded the most stringent MAC, but was below the MSA MAC. Lead was detected by TCLP and SPLP analyses at concentrations above the TACO Tier 1 RO for the SCGIER in samples 2746-01A-B03 (0-8) and 2746-01A-B04 (0-8); however, the total lead concentrations detected in those samples were below the MAC. Manganese was detected by TCLP and SPLP analyses at concentrations above the TACO Tier 1 RO for the SCGIER in samples 2746-01A-B02 (0-8), 2746-01A-B03 (0-8), and 2746-01A-B04 (0-8); however, the total manganese concentrations detected in those samples were below the most stringent MAC.

No other COCs were identified at the site. Total iron was detected at concentrations above the MSA MAC in samples 2746-01A-B01 (0-8), 2746-01A-B04 (0-8), and 2746-01A-B05 (0-8), but iron was not detected in the samples by TCLP analysis. The total manganese concentration detected in sample 2746-01A-B01 (0-8) exceeded the MSA MAC and the TCLP manganese concentration exceeded the TACO Tier 1 RO for the SCGIER; however, manganese was not detected in the sample by SPLP analysis. TCLP manganese was detected in sample 2746-01A-B05 (0-8) at a concentration exceeding the TACO Tier 1 RO for the SCGIER; however, the total and SPLP manganese concentrations detected in the sample were below applicable reference concentrations.

VOCs were not detected during headspace screening of site soil. The pH levels for all of the samples were within the acceptable range for management of the soil at a CCDD facility or USFO.

4.3.4 IDOT Construction Activities at ISGS #2746-1a

4.3.4.1 Soil

Planned construction activities at this site include resurfacing and widening of the roadway and storm sewer installation (see Figure 4-4A). Excavations associated with the improvements are estimated to extend to a maximum depth of 8 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-4A and 4-4B. Table 4-6 presents the total volume of soil anticipated for excavation at the site along with an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site. Construction volumes were estimated using excavation quantities provided by IDOT.

4.4 ISGS #2746-1b (IDOT ROW – Intersection of I-90 and Canfield Ave.)

4.4.1 Field Observations at ISGS #2746-1b

E & E advanced two borings (2746-01B-B01 and 2746-01B-B02) at ISGS #2746-1b (IDOT ROW – Intersection of I-90 and Canfield Ave.) (see Table 4-1 and Figure 4-6A). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit evidence of potential chemical contamination. E & E collected one sample from each boring for laboratory analysis. A duplicate sample was collected from boring 2746-01B-B01. One groundwater sample was proposed for collection at the site; however, groundwater was not encountered.

4.4.2 Analytical Results for ISGS #2746-1b

Acetone was detected in sample 2746-01B-B02 (0-3), and was the only VOC detected in site soil (see Table 4-2). Sixteen SVOCs, all PAHs, were detected in the site samples. Twenty-two metals were detected in the site samples, and five of the metals were detected by TCLP analysis. Based on the TCLP metals results, all of the samples were analyzed for SPLP manganese. SPLP manganese was

detected in the sample 2746-01B-B01 (0-8) and duplicate sample 2746-01B-B01 (0-8) D. The sample pH levels ranged from 8.41 to 11.0 SU.

4.4.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #2746-1b

Benzo(a)pyrene, dibenzo(a,h)anthracene, and manganese were detected above reference concentrations in soil at the site (see Table 4-4). The benzo(a)pyrene and dibenzo(a,h)anthracene concentrations detected in sample 2746-01B-B02 (0-3) exceeded the most stringent MACs, but were below the MSA and Chicago MACs. Manganese was detected by TCLP and SPLP analyses at concentrations above the TACO Tier 1 RO for the SCGIER in samples 2746-01B-B01 (0-8) and 2746-01B-B01 (0-8) D; however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Total iron was detected at concentrations above the MSA MAC in samples 2746-01B-B01 (0-8) and 2746-01B-B01 (0-8) D, but iron was not detected in the samples by TCLP analysis. TCLP manganese was detected in sample 2746-01B-B02 (0-3) at a concentration exceeding the TACO Tier 1 RO for the SCGIER; however, the total manganese concentration detected in the sample was below the most stringent MAC, and manganese was not detected in the sample by SPLP analysis.

VOCs were not detected during headspace screening of site soil. The pH for sample 2746-01B-B02 (0-3) exceeded the acceptable range for management of the soil at a CCDD facility or USFO. The pH levels for the samples from boring 2746-01B-B01 were within the acceptable range for management of the soil at a CCDD facility or USFO.

4.4.4 IDOT Construction Activities at ISGS #2746-1b

4.4.4.1 Soil

Planned construction activities at this site include resurfacing and widening of the roadway and storm sewer installation (see Figure 4-6A). Excavations associated with the improvements are estimated to extend to a maximum depth of 10 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-6A and 4-6B. Table 4-6 presents the total volume of soil anticipated for excavation at the site along with an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site. Construction volumes were estimated using excavation quantities provided by IDOT.

4.5 ISGS #2746-2 (Chicago Transit Authority Tracks)

4.5.1 Field Observations at ISGS #2746-2

E & E advanced one boring (2746-02-B01) at ISGS #2746-2 (Chicago Transit Authority Tracks) (see Table 4-1 and Figure 4-7A). VOCs were not detected

during headspace screening of site soils, and the soils did not exhibit evidence of potential chemical contamination. E & E collected three samples from the boring for laboratory analysis. A groundwater sample was not proposed for collection at this site.

4.5.2 Analytical Results for ISGS #2746-2

VOCs were not detected in the samples from this site (see Table 4-2). Twelve SVOCs, all PAHs, were detected in the site samples. Twenty metals were detected in the site samples, and six of the metals were detected by TCLP analysis. Based on the TCLP metals results, all of the samples were analyzed for SPLP manganese, and manganese was detected in all of the samples. The sample pH levels ranged from 8.01 to 8.27 SU.

4.5.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #2746-2

Arsenic and manganese were detected above reference concentrations in soil at the site (see Table 4-4). The total arsenic concentration detected in sample 2746-02-B01 (12-18) exceeded all applicable comparison criteria, including the TACO Tier 1 RO for the residential soil exposure route. Manganese was detected by TCLP and SPLP analyses at concentrations above the TACO Tier 1 RO for the SCGIER in samples 2746-02-B01 (0-6) and 2746-02-B01 (12-18); however, the total manganese concentrations detected in the samples were below the most stringent MAC.

No other COCs were identified at the site. Total chromium was detected at a concentration above the most stringent MAC in sample 2746-02-B01 (0-6), but chromium was not detected by TCLP analysis. Total iron was detected at concentrations above the MSA MAC in all of the samples, but iron was not detected in the samples by TCLP analysis. TCLP manganese was detected in sample 2746-02-B01 (6-12) at a concentration exceeding the TACO Tier 1 RO for the SCGIER; however, the total and SPLP manganese concentrations detected in the sample were below applicable reference concentrations.

VOCs were not detected during headspace screening of site soil. The pH levels for all of the samples were within the acceptable range for management of the soil at a CCDD facility or USFO.

4.5.4 IDOT Construction Activities at ISGS #2746-2

4.5.4.1 Soil

Planned construction activities at this site include resurfacing and widening of the roadway, storm sewer installation, and retention wall installation (see Figure 4-7A). Excavations associated with the improvements are estimated to extend to a maximum depth of 18 feet bgs.

The assumed areas of impact and COCs are depicted on Figures 4-7A and 4-7B. Table 4-6 presents the total volume of soil anticipated for excavation at the site

along with an estimated volume of impacted soil within the proposed construction excavation area that will require proper handling and disposal if removed from the site. Construction volumes were estimated using excavation quantities provided by IDOT.

4.6 ISGS #2746-61 (IDOT ROW)

4.6.1 Field Observations at ISGS #2746-61

E & E advanced one boring (2746-61-B01) at ISGS #2746-61 (IDOT ROW) (see Table 4-1 and Figure 4-6A). VOCs were not detected during headspace screening of site soils, and the soils did not exhibit evidence of potential chemical contamination. E & E collected one sample from the boring for laboratory analysis. A groundwater sample was not proposed for collection at this site.

4.6.2 Analytical Results for ISGS #2746-61

VOCs and SVOCs were not detected in the sample from this site (see Table 4-2). Sixteen metals were detected in the site sample, and two of the metals were detected by TCLP analysis. Based on the TCLP metals results, sample 2746-61-B01 (0-5) was analyzed for SPLP manganese, and SPLP manganese was detected in the sample. The sample pH was 8.71 SU.

4.6.3 Nature and Extent of Contamination above Applicable Criteria at ISGS #2746-61

No COCs were identified at the site. TCLP manganese was detected in the sample at a concentration above the TACO Tier 1 RO for the SCGIER; however, the total and SPLP manganese concentrations detected in the sample was below applicable reference criteria.

VOCs were not detected during headspace screening of site soil, and the sample pH was within the acceptable range for management of the soil at a CCDD facility or USFO.

4.6.4 IDOT Construction Activities at ISGS #2746-61

4.6.4.1 Soil

Planned construction activities at this site include roadway resurfacing and widening and noise barrier installation (see Figure 4-6A). Excavations associated with the improvements are estimated to extend to a maximum depth of 5 feet bgs.

The site area and analytes detected in site soil are depicted on Figures 4-6A and 4-6B. COCs were not detected in soil at the site; consequently E & E has not calculated a volume of soil requiring off-site management.

**Table 4-1 Field Observations and Sampling Rationale
 FAI 90 (Interstate 90), Contract No. 60Y39
 Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

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Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
ISGS #2746-01 (IDOT ROW)					
2746-01-B01	10	None Detected	None	0-5	Sample was collected within the proposed construction depth.
				5-10	Sample was collected within the proposed construction depth.
2746-01-B02	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-15	Sample was collected within the proposed construction depth.
2746-01-B03	9	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-12	Sample was collected within the proposed construction depth.
2746-01-B04	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-15	Sample was collected within the proposed construction depth.
2746-01-B05	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.
2746-01-B06	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
2746-01-B07	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.
2746-01-B08	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
2746-01-B09	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.

**Table 4-1 Field Observations and Sampling Rationale
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
2746-01-B10	--	None Detected	None	0-6	Sample was collected within the proposed construction depth.
				6-11	Sample was collected within the proposed construction depth.
2746-01-B11	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
				14-20	Sample was collected within the proposed construction depth.
2746-01-B12	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.
2746-01-B13	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-15	Sample was collected within the proposed construction depth.
2746-01-B14	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.
2746-01-B15	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-17	Sample was collected within the proposed construction depth.
2746-01-B16	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.
2746-01-B17	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.

**Table 4-1 Field Observations and Sampling Rationale
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
2746-01-B18	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
				8-16	Sample was collected within the proposed construction depth.
				16-24	Sample was collected within the proposed construction depth.
				24-30	Sample was collected within the proposed construction depth.
2746-01-B19	--	None Detected	None	0-2	Sample was collected within the proposed construction depth.
2746-01-B20	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
				14-20	Sample was collected within the proposed construction depth.
2746-01-B21	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
2746-01-B22	--	None Detected	None	0-2	Sample was collected within the proposed construction depth.
2746-01-B23	--	None Detected	None	0-2	Sample was collected within the proposed construction depth.
2746-01-B24	5	None Detected	None	0-5	Sample was collected within the proposed construction depth.
2746-01-B25	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
				14-20	Sample was collected within the proposed construction depth.
2746-01-B26	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B27	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B28	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B29	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
				14-20	Sample was collected within the proposed construction depth.
2746-01-B30	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B31	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B32	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.

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**Table 4-1 Field Observations and Sampling Rationale
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
2746-01-B33	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B34	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B35	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B36	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B37	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B38	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B39	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B40	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B41	--	None Detected	None	0-5	Sample was collected within the proposed construction depth.
				5-10	Sample was collected within the proposed construction depth.
2746-01-B42	--	None Detected	None	0-6	Sample was collected within the proposed construction depth.
				6-11	Sample was collected within the proposed construction depth.
2746-01-B43	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
2746-01-B44	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
2746-01-B45	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
2746-01-B46	--	None Detected	None	0-5	Sample was collected within the proposed construction depth.
				5-10	Sample was collected within the proposed construction depth.
2746-01-B47	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-13	Sample was collected within the proposed construction depth.
2746-01-B48	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-13	Sample was collected within the proposed construction depth.

**Table 4-1 Field Observations and Sampling Rationale
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
2746-01-B49	--	None Detected	None	0-6.5	Sample was collected within the proposed construction depth.
				6.5-13	Sample was collected within the proposed construction depth.
2746-01-B50	--	None Detected	None	0-6.5	Sample was collected within the proposed construction depth.
				6.5-13	Sample was collected within the proposed construction depth.
2746-01-B51	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
2746-01-B52	--	None Detected	None	0-6	Sample was collected within the proposed construction depth.
				6-12	Sample was collected within the proposed construction depth.
2746-01-B53	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
2746-01-B54	--	None Detected	None	0-7	Sample was collected within the proposed construction depth.
				7-14	Sample was collected within the proposed construction depth.
				14-20	Sample was collected within the proposed construction depth.
2746-01-B55	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B56	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01-B57	--	None Detected	None	0-6	Sample was collected within the proposed construction depth.
ISGS #2746-01A (IDOT ROW - Interchange of I-90 and Cumberland Ave)					
2746-01A-B01	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01A-B02	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01A-B03	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01A-B04	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
2746-01A-B05	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
ISGS #2746-01B (IDOT ROW - Intersection of I-90 and Canfield Ave)					
2746-01B-B01	--	None Detected	None	0-8	Sample was collected within the proposed construction depth.
					Sample was collected within the proposed construction depth.
2746-01B-B02	--	None Detected	None	0-3	Sample was collected within the proposed construction depth.

**Table 4-1 Field Observations and Sampling Rationale
 FAI 90 (Interstate 90), Contract No. 60Y39
 Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Depth to Groundwater (feet)	Range of PID Readings (meter units)	Observed Evidence of Potential Contamination	Depth Interval(s) Sampled (feet)	Rationale
ISGS #2746-02 (Chicago Transit Authority Tracks)					
2746-02-B01	--	None Detected	None	0-6	Sample was collected within the proposed construction depth.
				6-12	Sample was collected within the proposed construction depth.
				12-18	Sample was collected within the proposed construction depth.
ISGS #2746-61 (IDOT ROW)					
2746-61-B01	--	None Detected	None	0-5	Sample was collected within the proposed construction depth.

Key:

- BGS = Below ground surface.
- ISGS = Illinois State Geological Survey.
- NA = Not applicable.
- PID = Photoionization detector.
- = Groundwater was not encountered in the boring.

**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #2746-1 (IDOT ROW)					
VOCs (mg/Kg)					
2-Butanone (MEK)	0.013	--	--	--	--
Acetone	0.057	25	--	100,000	--
Tetrachloroethene	0.027	0.06	--	28	--
Trichloroethene	0.0056	0.06	--	12	--
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.27	--	--	--	--
Acenaphthene	0.77	570	--	120,000	--
Acenaphthylene	0.052	--	--	--	--
Anthracene	6.5	12,000	--	610,000	--
Benzo[a]anthracene	12.0	0.9	1.8	170	--
Benzo[a]pyrene	8.5	0.09	2.1	17	--
Benzo[b]fluoranthene	14.0	0.9	2.1	170	--
Benzo[g,h,i]perylene	2.	--	--	--	--
Benzo[k]fluoranthene	4.	9.0	--	1,700	--
Bis(2-ethylhexyl) phthalate	0.12	46	--	4,100	--
Butyl benzyl phthalate	0.18	930	--	930	--
Carbazole	0.79	0.6	--	6,200	--
Chrysene	11.0	88	--	17,000	--
Dibenz(a,h)anthracene	0.84	0.09	0.42	17	--
Dibenzofuran	0.51	--	--	--	--
Di-n-butyl phthalate	0.085	2,300	--	2,300	--
Fluoranthene	24.0	3,100	--	82,000	--
Fluorene	1.2	560	--	82,000	--
Indeno[1,2,3-cd]pyrene	2.4	0.9	1.6	170	--
Naphthalene	0.1	1.8	--	1.8	--
Phenanthrene	16.0	--	--	--	--
Pyrene	29.0	2,300	--	61,000	--
Inorganics (mg/Kg)					
Antimony	0.29	5.0	--	82	--
Arsenic	29.0	11.3	13	61	--
Barium	130	1,500	--	14,000	--
Beryllium	1.1	22	--	410	--
Boron	16.0	40	--	41,000	--
Cadmium	2.7	5.2	--	200	--
Calcium	120,000	--	--	--	--
Chromium	28.0	21	--	690	--
Cobalt	22.0	20	--	12,000	--
Copper	7,200	2,900	--	8,200	--
Iron	28,000	15,000	15,900	--	--
Lead	3,300	107	--	700	--
Magnesium	65,000	325,000	--	730,000	--
Manganese	1,800	630	636	4,100	--
Mercury	0.12	0.89	--	0.1	--
Nickel	45.0	100	--	4,100	--

Maximum detected concentrations above the most stringent Maximum Allowable Concentration are shaded. See note at end of table.

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #2746-1 (IDOT ROW)					
Inorganics (mg/Kg)					
Potassium	3,000	--	--	--	--
Selenium	2.1	1.3	--	1,000	--
Silver	0.56	4.4	--	1,000	--
Sodium	2,400	--	--	--	--
Thallium	0.76	2.6	--	160	--
Vanadium	31.0	550	--	1,400	--
Zinc	5,300	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.92	--	--	--	2.0
Boron	0.77	--	--	--	2.0
Cadmium	0.013	--	--	--	0.005
Cobalt	0.05	--	--	--	1.0
Iron	0.24	--	--	--	5.0
Lead	0.18	--	--	--	0.0075
Manganese	8.5	--	--	--	0.15
Nickel	0.072	--	--	--	0.1
Selenium	0.024	--	--	--	0.05
Zinc	5.5	--	--	--	5.0
SPLP Metals (mg/L)					
Boron	1.1	--	--	--	2.0
Lead	0.21	--	--	--	0.0075
Manganese	3.1	--	--	--	0.15
Zinc	3.	--	--	--	5.0
ISGS #2746-1A (IDOT ROW - Interchange of I-90 and Cumberland Ave.)					
VOCs (mg/Kg)					
Acetone	0.031	25	--	100,000	--
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.0097	--	--	--	--
Acenaphthene	0.019	570	--	120,000	--
Acenaphthylene	0.012	--	--	--	--
Anthracene	0.11	12,000	--	610,000	--
Benzo[a]anthracene	0.29	0.9	1.8	170	--
Benzo[a]pyrene	0.31	0.09	2.1	17	--
Benzo[b]fluoranthene	0.37	0.9	2.1	170	--
Benzo[g,h,i]perylene	0.16	--	--	--	--
Benzo[k]fluoranthene	0.17	9.0	--	1,700	--
Chrysene	0.34	88	--	17,000	--
Dibenz(a,h)anthracene	0.033	0.09	0.42	17	--
Fluoranthene	0.54	3,100	--	82,000	--
Fluorene	0.022	560	--	82,000	--
Indeno[1,2,3-cd]pyrene	0.17	0.9	1.6	170	--
Naphthalene	0.012	1.8	--	1.8	--
Phenanthrene	0.24	--	--	--	--
Pyrene	0.46	2,300	--	61,000	--

Maximum detected concentrations above the most stringent Maximum Allowable Concentration are shaded. See note at end of table.

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #2746-1A (IDOT ROW - Interchange of I-90 and Cumberland Ave.)					
Inorganics (mg/Kg)					
Arsenic	12.0	11.3	13	61	--
Barium	130	1,500	--	14,000	--
Beryllium	0.91	22	--	410	--
Boron	9.3	40	--	41,000	--
Cadmium	0.14	5.2	--	200	--
Calcium	43,000	--	--	--	--
Chromium	21.0	21	--	690	--
Cobalt	19.0	20	--	12,000	--
Copper	26.0	2,900	--	8,200	--
Iron	22,000	15,000	15,900	--	--
Lead	35.0	107	--	700	--
Magnesium	20,000	325,000	--	730,000	--
Manganese	710	630	636	4,100	--
Mercury	0.036	0.89	--	0.1	--
Nickel	40.0	100	--	4,100	--
Potassium	2,900	--	--	--	--
Selenium	0.57	1.3	--	1,000	--
Sodium	2,300	--	--	--	--
Thallium	0.68	2.6	--	160	--
Vanadium	32.0	550	--	1,400	--
Zinc	81.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.78	--	--	--	2.0
Boron	0.098	--	--	--	2.0
Cadmium	0.0022	--	--	--	0.005
Cobalt	0.014	--	--	--	1.0
Lead	0.016	--	--	--	0.0075
Manganese	4.6	--	--	--	0.15
Nickel	0.026	--	--	--	0.1
Zinc	0.028	--	--	--	5.0
SPLP Metals (mg/L)					
Lead	0.2	--	--	--	0.0075
Manganese	0.63	--	--	--	0.15
ISGS #2746-1B (IDOT ROW - Intersection of I-90 and Canfield Ave.)					
VOCs (mg/Kg)					
Acetone	0.017	25	--	100,000	--
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.17	--	--	--	--
Acenaphthene	0.046	570	--	120,000	--
Anthracene	0.094	12,000	--	610,000	--
Benzo[a]anthracene	0.33	0.9	1.8	170	--
Benzo[a]pyrene	0.36	0.09	2.1	17	--
Benzo[b]fluoranthene	0.59	0.9	2.1	170	--
Benzo[g,h,i]perylene	0.29	--	--	--	--

Maximum detected concentrations above the most stringent Maximum Allowable Concentration are shaded. See note at end of table.

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #2746-1B (IDOT ROW - Intersection of I-90 and Canfield Ave.)					
SVOCs (mg/Kg)					
Benzo[k]fluoranthene	0.22	9.0	--	1,700	--
Chrysene	0.53	88	--	17,000	--
Dibenz(a,h)anthracene	0.1	0.09	0.42	17	--
Fluoranthene	0.62	3,100	--	82,000	--
Fluorene	0.07	560	--	82,000	--
Indeno[1,2,3-cd]pyrene	0.22	0.9	1.6	170	--
Naphthalene	0.061	1.8	--	1.8	--
Phenanthrene	0.65	--	--	--	--
Pyrene	1.4	2,300	--	61,000	--
Inorganics (mg/Kg)					
Antimony	0.19	5.0	--	82	--
Arsenic	6.1	11.3	13	61	--
Barium	46.0	1,500	--	14,000	--
Beryllium	0.61	22	--	410	--
Boron	14.0	40	--	41,000	--
Cadmium	0.035	5.2	--	200	--
Calcium	170,000	--	--	--	--
Chromium	16.0	21	--	690	--
Cobalt	14.0	20	--	12,000	--
Copper	24.0	2,900	--	8,200	--
Iron	17,000	15,000	15,900	--	--
Lead	13.0	107	--	700	--
Magnesium	99,000	325,000	--	730,000	--
Manganese	310	630	636	4,100	--
Mercury	0.015	0.89	--	0.1	--
Nickel	35.0	100	--	4,100	--
Potassium	2,600	--	--	--	--
Selenium	0.36	1.3	--	1,000	--
Sodium	830	--	--	--	--
Thallium	0.41	2.6	--	160	--
Vanadium	19.0	550	--	1,400	--
Zinc	52.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.52	--	--	--	2.0
Boron	0.086	--	--	--	2.0
Cobalt	0.011	--	--	--	1.0
Manganese	1.9	--	--	--	0.15
Nickel	0.023	--	--	--	0.1
SPLP Metals (mg/L)					
Manganese	0.34	--	--	--	0.15
ISGS #2746-2 (Chicago Transit Authority Tracks)					
SVOCs (mg/Kg)					
2-Methylnaphthalene	0.03	--	--	--	--
Benzo[a]anthracene	0.021	0.9	1.8	170	--

Maximum detected concentrations above the most stringent Maximum Allowable Concentration are shaded. See note at end of table.

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #2746-2 (Chicago Transit Authority Tracks)					
SVOCs (mg/Kg)					
Benzo[a]pyrene	0.029	0.09	2.1	17	--
Benzo[b]fluoranthene	0.059	0.9	2.1	170	--
Benzo[g,h,i]perylene	0.019	--	--	--	--
Benzo[k]fluoranthene	0.022	9.0	--	1,700	--
Chrysene	0.038	88	--	17,000	--
Fluoranthene	0.052	3,100	--	82,000	--
Indeno[1,2,3-cd]pyrene	0.018	0.9	1.6	170	--
Naphthalene	0.02	1.8	--	1.8	--
Phenanthrene	0.048	--	--	--	--
Pyrene	0.043	2,300	--	61,000	--
Inorganics (mg/Kg)					
Arsenic	14.0	11.3	13	61	--
Barium	65.0	1,500	--	14,000	--
Beryllium	0.7	22	--	410	--
Boron	12.0	40	--	41,000	--
Cadmium	0.3	5.2	--	200	--
Calcium	74,000	--	--	--	--
Chromium	24.0	21	--	690	--
Cobalt	14.0	20	--	12,000	--
Copper	36.0	2,900	--	8,200	--
Iron	21,000	15,000	15,900	--	--
Lead	63.0	107	--	700	--
Magnesium	37,000	325,000	--	730,000	--
Manganese	530	630	636	4,100	--
Mercury	0.019	0.89	--	0.1	--
Nickel	37.0	100	--	4,100	--
Potassium	2,500	--	--	--	--
Sodium	820	--	--	--	--
Thallium	0.87	2.6	--	160	--
Vanadium	20.0	550	--	1,400	--
Zinc	99.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.56	--	--	--	2.0
Boron	0.61	--	--	--	2.0
Cobalt	0.015	--	--	--	1.0
Manganese	1.8	--	--	--	0.15
Nickel	0.045	--	--	--	0.1
Zinc	0.13	--	--	--	5.0
SPLP Metals (mg/L)					
Manganese	0.42	--	--	--	0.15
ISGS #2746-61 (IDOT ROW)					
Inorganics (mg/Kg)					
Arsenic	2.2	11.3	13	61	--
Barium	8.3	1,500	--	14,000	--

Maximum detected concentrations above the most stringent Maximum Allowable Concentration are shaded. See note at end of table.

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**Table 4-2 Detected Soil Analytes and Comparison with Applicable Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Detected Concentration	Maximum Allowable Concentrations		TACO Remediation Objectives	
		Most Stringent	Within an MSA	Construction Worker Exposure	Groundwater Protection (TCLP/SPLP)
ISGS #2746-61 (IDOT ROW)					
Inorganics (mg/Kg)					
Beryllium	0.096	22	--	410	--
Boron	4.	40	--	41,000	--
Calcium	120,000	--	--	--	--
Cobalt	2.3	20	--	12,000	--
Copper	7.3	2,900	--	8,200	--
Iron	5,500	15,000	15,900	--	--
Lead	3.1	107	--	700	--
Magnesium	45,000	325,000	--	730,000	--
Manganese	190	630	636	4,100	--
Nickel	6.6	100	--	4,100	--
Potassium	470	--	--	--	--
Sodium	330	--	--	--	--
Vanadium	7.8	550	--	1,400	--
Zinc	20.0	5,100	--	61,000	--
TCLP Metals (mg/L)					
Barium	0.14	--	--	--	2.0
Manganese	1.1	--	--	--	0.15
SPLP Metals (mg/L)					
Manganese	0.027	--	--	--	0.15

NOTE: Maximum Allowable Concentration refers to the values listed in the Summary of Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations, 35 Ill. Adm. Code 1100.Subpart F dated 8/27/12. Total COC concentrations exceeding a MAC are highlighted; however, further evaluation is required to determine if the detected metals concentrations exceed the applicable MAC. For metals, total, TCLP and SPLP results are evaluated collectively to determine compliance with MACs.

Key:

- ISGS = Illinois State Geological Survey.
- MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil.
- mg/L = Milligrams per liter.
- mg/kg = Milligrams per kilogram.
- MSA = Metropolitan Statistical Area.
- = Not applicable or not specified. Groundwater protection objectives are shown for inorganics via TCLP/SPLP analyses.
- SPLP = Synthetic precipitation leaching procedure.
- SVOCs = Semivolatile organic compounds.
- TACO = Tiered Approach to Corrective Action Objectives.
- TCLP = Toxicity characteristic leaching procedure.
- VOCs = Volatile organic compounds.

**Table 4-3 Detected Water Analytes and Comparison to TACO Tier 1 Criteria
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, Norwood Park, Cook County, Illinois**

Chemical	Maximum Concentration Detected	TACO Tier 1 Remediation Objectives for Groundwater	
		Class I	Class II
ISGS #2746-1 (IDOT ROW)			
SVOCs (mg/L)			
Bis(2-ethylhexyl) phthalate	0.0033	0.006	0.06
Inorganics (mg/L)			
Arsenic	0.0073	0.05	0.2
Barium	0.067	2.0	2.0
Boron	0.17	2.0	2.0
Cadmium	0.0004	0.005	0.05
Calcium	460	NS	NS
Chromium	0.0082	0.1	1.0
Cobalt	0.04	1.0	1.0
Copper	0.022	0.65	0.65
Iron	18.0	5.0	5.0
Lead	0.0067	0.0075	0.1
Magnesium	190	NS	NS
Manganese	1.7	0.15	10
Nickel	0.047	0.1	2.0
Potassium	5.2	NS	NS
Selenium	0.0014	0.05	0.05
Sodium	900	NS	NS
Vanadium	0.0071	0.049	0.1
Zinc	0.088	5.0	10

Key:

- ISGS = Illinois State Geological Survey.
- µg/L = Micrograms per liter.
- mg/L = Milligrams per liter.
- NS = Not specified.
- TACO = Tiered Approach to Corrective Action Objectives.

A shaded concentration indicates an exceedance of one or more TACO criteria.

**Table 4-4 Summary of Soil Impacts
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Range of PID Readings (meter units)	Sample	pH	Contaminants of Concern ^a		Off-Site Management ^b	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
ISGS #2746-01 (IDOT ROW)							
2746-01-B01	None detected	2746-01-B01 (0-5)	7.79	None	Manganese (T/S)	No	Non-Special Waste
		2746-01-B01 (5-10)	7.73	Manganese ^c	None		
2746-01-B02	None detected	2746-01-B02 (0-8)	8.59	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B02 (8-15)	7.64	None	None		
2746-01-B03	None detected	2746-01-B03 (0-8)	8.07	None	Benzo(a)pyrene, manganese (T/S)	Yes, within MSA inclusive of Chicago	Uncontaminated
		2746-01-B03 (8-12)	7.88	None	None		
2746-01-B04	None detected	2746-01-B04 (0-8)	7.63	Lead	None	No	Non-Special Waste
		2746-01-B04 (8-17)	7.98	None	None		
2746-01-B05	None detected	2746-01-B05 (0-8)	7.89	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B05 (8-16)	8.06	None	None		
		2746-01-B05 (16-24)	7.79	None	Manganese (T/S)		
		2746-01-B05 (24-30)	8.16	None	Manganese (T/S)		
2746-01-B06	None detected	2746-01-B06 (0-8)	8.61	None	None	Yes	Unrestrictive
		2746-01-B06 (8-16)	7.83	None	None		
2746-01-B07	None detected	2746-01-B07 (0-8)	8.50	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B07 (0-8) D	8.56	None	Lead (T/S)		
		2746-01-B07 (8-16)	7.79	None	None		
		2746-01-B07 (16-24)	8.06	None	Manganese (T/S)		
		2746-01-B07 (24-30)	8.24	None	Manganese (T/S)		
2746-01-B08	None detected	2746-01-B08 (0-7)	7.45	None	None	Yes	Uncontaminated
		2746-01-B08 (7-14)	7.91	None	Manganese (T/S)		
2746-01-B09	None detected	2746-01-B09 (0-8)	7.96	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated
		2746-01-B09 (8-16)	7.88	None	Manganese (T/S)		
		2746-01-B09 (16-24)	7.86	None	None		
		2746-01-B09 (24-30)	7.67	None	Manganese (T/S)		

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**Table 4-4 Summary of Soil Impacts
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Range of PID Readings (meter units)	Sample	pH	Contaminants of Concern ^a		Off-Site Management ^b	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
2746-01-B10	None detected	2746-01-B10 (0-6)	8.14	Copper ^c and lead	Benzo(a)pyrene, manganese (T/S)	No	Non-Special Waste
		2746-01-B10 (6-11)	8.19	None	None		
2746-01-B11	None detected	2746-01-B11 (0-7)	8.16	None	None	Yes	Uncontaminated
		2746-01-B11 (7-14)	7.92	None	None		
		2746-01-B11 (14-20)	8.18	None	Manganese (T/S)		
2746-01-B12	None detected	2746-01-B12 (0-8)	8.06	None	None	Yes	Uncontaminated
		2746-01-B12 (8-16)	7.95	None	None		
		2746-01-B12 (16-24)	8.29	None	Manganese (T/S)		
		2746-01-B12 (24-30)	8.48	None	Manganese (T/S)		
2746-01-B13	None detected	2746-01-B13 (0-8)	8.51	None	None	Yes	Uncontaminated
		2746-01-B13 (8-15)	8.02	None	Manganese (T/S)		
2746-01-B14	None detected	2746-01-B14 (0-8)	9.17	None	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, manganese (T/S)	No (pH)	Non-Special Waste
		2746-01-B14 (8-16)	8.09	None	Manganese (T/S)		
		2746-01-B14 (16-24)	8.32	None	Manganese (T/S)		
		2746-01-B14 (24-30)	8.18	None	Manganese (T/S)		
2746-01-B15	None detected	2746-01-B15 (0-8)	8.98	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B15 (8-17)	8.28	None	None		
2746-01-B16	None detected	2746-01-B16 (0-8)	9.02	Benzo(a)anthracene ^c , benzo(b)fluoranthene ^c	Benzo(a)pyrene, dibenzo(a,h)anthracene, manganese (T/S)	No	Non-Special Waste
		2746-01-B16 (8-16)	8.29	None	None		
		2746-01-B16 (16-24)	8.09	None	Manganese (T/S)		
		2746-01-B16 (24-30)	8.37	None	Manganese (T/S)		
2746-01-B17	None detected	2746-01-B17 (0-8)	9.11	None	None	No (pH)	Non-Special Waste
		2746-01-B17 (8-16)	8.39	None	None		

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**Table 4-4 Summary of Soil Impacts
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Range of PID Readings (meter units)	Sample	pH	Contaminants of Concern ^a		Off-Site Management ^b	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
2746-01-B18	None detected	2746-01-B18 (0-8)	8.74	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B18 (8-16)	8.03	None	Manganese (T/S)		
		2746-01-B18 (16-24)	8.43	None	Manganese (T/S)		
		2746-01-B18 (24-30)	8.36	None	Manganese (T/S)		
		2746-01-B18 (24-30) D	8.37	None	Manganese (T/S)		
2746-01-B19	None detected	2746-01-B19 (0-2)	8.82	None	Manganese (T/S)	Yes	Uncontaminated
2746-01-B20	None detected	2746-01-B20 (0-7)	8.28	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B20 (7-14)	8.13	None	None		
		2746-01-B20 (14-20)	8.24	None	Manganese (T/S)		
2746-01-B21	None detected	2746-01-B21 (0-7)	8.15	None	None	Yes	Unrestrictive
		2746-01-B21 (7-14)	8.23	None	None		
2746-01-B22	None detected	2746-01-B22 (0-2)	8.20	None	Benzo(a)pyrene, manganese (T/S)	Yes, within MSA inclusive of Chicago	Uncontaminated
2746-01-B23	None detected	2746-01-B23 (0-2)	8.57	Benzo(a)anthracene ^c , benzo(a)pyrene ^c , benzo(b)fluoranthene ^c , carbazole, dibenzo(a,h)anthracene ^c , indeno(1,2,3-cd)pyrene ^c	Manganese (T/S)	No	Non-Special Waste
2746-01-B24	None detected	2746-01-B24 (0-5)	8.51	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated
2746-01-B25	None detected	2746-01-B25 (0-7)	7.94	None	Benzo(a)pyrene	Yes, within MSA inclusive of Chicago	Uncontaminated
		2746-01-B25 (7-14)	8.24	None	None		
		2746-01-B25 (14-20)	8.57	None	Manganese (T/S)		
2746-01-B26	None detected	2746-01-B26 (0-8)	8.44	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B26 (0-8) D	8.42	None	Lead (T/S), manganese (T/S)		
2746-01-B27	None detected	2746-01-B27 (0-8)	8.68	None	None	Yes	Unrestrictive
2746-01-B28	None detected	2746-01-B28 (0-8)	7.77	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated

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**Table 4-4 Summary of Soil Impacts
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Range of PID Readings (meter units)	Sample	pH	Contaminants of Concern ^a		Off-Site Management ^b	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
2746-01-B29	None detected	2746-01-B29 (0-7)	8.23	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B29 (7-14)	7.95	None	Manganese (T/S)		
		2746-01-B29 (14-20)	8.56	None	Manganese (T/S)		
2746-01-B30	None detected	2746-01-B30 (0-8)	8.76	None	Manganese (T/S)	Yes	Uncontaminated
2746-01-B31	None detected	2746-01-B31 (0-8)	8.90	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Yes, within MSA inclusive of Chicago	Uncontaminated
2746-01-B32	None detected	2746-01-B32 (0-8)	8.41	None	Manganese (T/S)	Yes	Uncontaminated
2746-01-B33	None detected	2746-01-B33 (0-8)	8.21	None	None	Yes	Unrestrictive
2746-01-B34	None detected	2746-01-B34 (0-8)	8.52	None	None	Yes	Unrestrictive
2746-01-B35	None detected	2746-01-B35 (0-8)	7.70	Arsenic ^c	Manganese (T/S)	No	Non-Special Waste
2746-01-B36	None detected	2746-01-B36 (0-8)	6.78	None	None	Yes	Unrestrictive
2746-01-B37	None detected	2746-01-B37 (0-8)	7.61	None	None	Yes	Unrestrictive
2746-01-B38	None detected	2746-01-B38 (0-8)	8.12	None	None	Yes	Unrestrictive
2746-01-B39	None detected	2746-01-B39 (0-8)	8.17	None	Manganese (T/S)	Yes	Uncontaminated
2746-01-B40	None detected	2746-01-B40 (0-8)	8.35	None	Lead (T/S), manganese (T/S)	Yes	Uncontaminated
2746-01-B41	None detected	2746-01-B41 (0-5)	8.22	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B41 (5-10)	8.14	None	Manganese (T/S)		
2746-01-B42	None detected	2746-01-B42 (0-6)	8.25	None	None	Yes	Unrestrictive
		2746-01-B42 (6-11)	8.17	None	None		
2746-01-B43	None detected	2746-01-B43 (0-7)	8.57	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B43 (7-14)	8.03	None	None		
2746-01-B44	None detected	2746-01-B44 (0-7)	7.91	Lead ^{c,d}	Benzo(a)pyrene, manganese (T/S)	No	Non-Special Waste
		2746-01-B44 (7-14)	8.20	None	Manganese (T/S)		
2746-01-B45	None detected	2746-01-B45 (0-7)	8.03	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B45 (7-14)	7.98	None	None		
2746-01-B46	None detected	2746-01-B46 (0-5)	7.91	None	None	Yes	Unrestrictive
		2746-01-B46 (5-10)	7.88	None	None		

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**Table 4-4 Summary of Soil Impacts
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Range of PID Readings (meter units)	Sample	pH	Contaminants of Concern ^a		Off-Site Management ^b	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
2746-01-B47	None detected	2746-01-B47 (0-7)	7.76	None	None	Yes	Unrestrictive
		2746-01-B47 (7-13)	7.87	None	None		
2746-01-B48	None detected	2746-01-B48 (0-7)	7.95	None	None	Yes	Unrestrictive
		2746-01-B48 (7-13)	8.10	None	None		
2746-01-B49	None detected	2746-01-B49 (0-6.5)	8.13	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B49 (6.5-13)	8.36	None	Manganese (T/S)		
		2746-01-B49 (6.5-13) D	8.27	None	Manganese (T/S)		
2746-01-B50	None detected	2746-01-B50 (0-6.5)	7.96	None	None	Yes	Unrestrictive
		2746-01-B50 (6.5-13)	8.36	None	None		
2746-01-B51	None detected	2746-01-B51 (0-7)	7.96	None	None	Yes	Unrestrictive
		2746-01-B51 (7-14)	8.11	None	None		
2746-01-B52	None detected	2746-01-B52 (0-6)	7.97	None	None	Yes	Unrestrictive
		2746-01-B52 (6-12)	7.95	None	None		
2746-01-B53	None detected	2746-01-B53 (0-7)	8.88	None	Manganese (T/S)	Yes	Uncontaminated
2746-01-B54	None detected	2746-01-B54 (0-7)	8.28	None	Manganese (T/S)	Yes	Uncontaminated
		2746-01-B54 (7-14)	8.04	None	None		
		2746-01-B54 (7-14) D	8.09	None	None		
		2746-01-B54 (14-20)	8.92	None	Manganese (T/S)		
2746-01-B55	None detected	2746-01-B55 (0-8)	8.12	None	Lead (T/S)	Yes	Uncontaminated
2746-01-B56	None detected	2746-01-B56 (0-8)	7.96	Lead ^{c,d}	None	No	Non-Special Waste
2746-01-B57	None detected	2746-01-B57 (0-6)	8.46	None	Manganese (T/S)	Yes	Uncontaminated
ISGS #2746-01A (IDOT ROW - Interchange of I-90 and Cumberland Ave)							
2746-01A-B01	None detected	2746-01A-B01 (0-8)	7.52	None	None	Yes	Unrestrictive
2746-01A-B02	None detected	2746-01A-B02 (0-8)	8.37	None	Manganese (T/S)	Yes	Uncontaminated
2746-01A-B03	None detected	2746-01A-B03 (0-8)	8.89	None	Benzo(a)pyrene, lead (T/S), manganese (T/S)	Yes, within MSA inclusive of Chicago	Uncontaminated

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**Table 4-4 Summary of Soil Impacts
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Range of PID Readings (meter units)	Sample	pH	Contaminants of Concern ^a		Off-Site Management ^b	
				Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only	Eligible for CCDD or Uncontaminated Soil Fill Operation?	Classification
2746-01A-B04	None detected	2746-01A-B04 (0-8)	8.37	None	Arsenic, lead (T/S), manganese (T/S)	Yes, within MSA	Uncontaminated
2746-01A-B05	None detected	2746-01A-B05 (0-8)	7.52	None	None	Yes	Unrestrictive
ISGS #2746-01B (IDOT ROW - Intersection of I-90 and Canfield Ave)							
2746-01B-B01	None detected	2746-01B-B01 (0-8)	8.59	None	Manganese (T/S)	Yes	Uncontaminated
	None detected	2746-01B0B01 (0-8) D	8.41	None	Manganese (T/S)		
2746-01B-B02	None detected	2746-01B-B02 (0-3)	11.0	None	Benzo(a)pyrene, dibenzo(a,h)anthracene	No (pH)	Non-Special Waste
ISGS #2746-02 (Chicago Transit Authority Tracks)							
2746-02-B01	None detected	2746-02-B01 (0-6)	8.01	None	Manganese (T/S)	No	Non-Special Waste
		2746-02-B01 (6-12)	8.13	None	None		
		2746-02-B01 (12-18)	8.27	Arsenic ^c	Manganese (T/S)		
ISGS #2746-61 (IDOT ROW)							
2746-61-B01	None detected	2746-61-B01 (0-5)	8.71	None	None	Yes	Unrestrictive

Notes:

^a Contaminants of concern are defined as analytes that were detected at a concentration above one or more reference criteria. The following compounds and analytes have MACs for both MSAs and non-MSAs: arsenic, iron, manganese, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. TCLP/SPLP exceedances of the SCGIER are considered to be MAC exceedances when the total metal concentration also exceeds the MAC.

^b Soils that contain constituent concentrations below the most stringent MACs may be managed off site as "uncontaminated soil" pursuant to 35 IAC 1100. Uncontaminated soil with a pH range of 6.25 to 9.0 and no PID readings above background levels may be managed off site to a Clean Construction and Demolition Debris (CCDD) facility or uncontaminated soil fill operation (USFO). When a constituent has a MAC based on a Metropolitan Statistical Area (MSA), soils that contain constituents below the applicable MACs for an MSA, exhibit a pH within the range of 6.25 to 9.0, and do not exhibit PID readings above background levels may be managed off site as "uncontaminated soil" to a CCDD or USFO within the MSA county, excluding Chicago. Soils containing constituents above MACs for an MSA that cannot be managed on site are estimated as non-special waste. Metals (excluding arsenic) are considered eligible for off-site management to a CCDD or USFO facility unless the detected total, TCLP, and SPLP concentrations exceed applicable comparison criteria.

^c The detected analyte concentration exceeds the TACO Tier 1 remediation objective for the residential soil exposure route.

^d The detected analyte concentration exceeds the TACO Tier 1 remediation objective for the construction worker exposure route.

Key:

ISGS = Illinois State Geological Survey.
MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill at Regulated Fill Operations.
MSA = Metropolitan Statistical Area.
PID = Photoionization detector.

SPLP = Synthetic precipitation leaching procedure.
TCLP = Toxicity characteristic leaching procedure.
T/S = Toxicity characteristic leaching procedure/Synthetic precipitation leaching procedure.

**Table 4-5 Aggregate Estimates of Impacted Soil
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Contaminants of Concern		Estimated Surface Area of Impacted Soil (sq. yards)	Estimated Vertical Extent of Impacted Soil (feet)	Estimated Volume of Impacted Soil ^a (cubic yards)
	Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			
ISGS #2746-01 (IDOT ROW)					
2746-01-B01	Manganese	TCLP/SPLP manganese	2,906.7	10.0	9,688.9
2746-01-B02	None	TCLP/SPLP manganese	2,030.6	8.0	5,414.8
2746-01-B03	None	Benzo(a)pyrene, TCLP/SPLP manganese	1,794.4	8.0	4,785.2
2746-01-B04	Lead	None	3,352.8	8.0	8,940.7
2746-01-B05	None	TCLP/SPLP manganese	3,111.1	30.0	31,111.1
2746-01-B07	None	TCLP/SPLP lead, TCLP/SPLP manganese	2,975.0	30.0	29,750.0
2746-01-B08	None	TCLP/SPLP manganese	3,263.9	14.0	15,231.5
2746-01-B09	None	TCLP/SPLP lead, TCLP/SPLP manganese	3,472.2	30.0	34,722.2
2746-01-B10	Copper and lead	Benzo(a)pyrene, TCLP/SPLP manganese	3,961.1	6.0	7,922.2
2746-01-B11	None	TCLP/SPLP manganese	3,100.0	20.0	20,666.7
2746-01-B12	None	TCLP/SPLP manganese	3,530.6	30.0	35,305.6
2746-01-B13	None	TCLP/SPLP manganese	4,047.2	15.0	20,236.1
2746-01-B14	None (pH)	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, TCLP/SPLP manganese	3,616.7	30.0	36,166.7
2746-01-B15	None	TCLP/SPLP manganese	3,466.7	8.0	9,244.4
2746-01-B16	Benzo(a)anthracene, benzo(b)fluoranthene, pH	Benzo(a)pyrene, dibenzo(a,h)anthracene, TCLP/SPLP manganese	3,966.7	30.0	39,666.7
2746-01-B17	None (pH)	None	4,133.3	8.0	11,022.2

**Table 4-5 Aggregate Estimates of Impacted Soil
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Contaminants of Concern		Estimated Surface Area of Impacted Soil (sq. yards)	Estimated Vertical Extent of Impacted Soil (feet)	Estimated Volume of Impacted Soil ^a (cubic yards)
	Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			
2746-01-B18	None	TCLP/SPLP manganese	5,375.0	30.0	53,750.0
2746-01-B19	None	TCLP/SPLP manganese	4,027.8	2.0	2,685.2
2746-01-B20	None	TCLP/SPLP manganese	4,111.1	20.0	27,407.4
2746-01-B22	None	Benzo(a)pyrene, TCLP/SPLP manganese	12,125.0	2.0	8,083.3
2746-01-B23	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene	TCLP/SPLP manganese	2,819.4	2.0	1,879.6
2746-01-B24	None	TCLP/SPLP lead, TCLP/SPLP manganese	4,116.7	5.0	6,861.1
2746-01-B25	None	Benzo(a)pyrene, TCLP/SPLP manganese	4,058.9	20.0	27,059.3
2746-01-B26	None	TCLP/SPLP lead, TCLP/SPLP manganese	3,666.7	8.0	9,777.8
2746-01-B28	None	TCLP/SPLP lead, TCLP/SPLP manganese	5,273.9	8.0	14,063.7
2746-01-B29	None	TCLP/SPLP manganese	3,188.9	20.0	21,259.3
2746-01-B30	None	TCLP/SPLP manganese	2,744.4	8.0	7,318.5
2746-01-B31	None	Benzo(a)pyrene, TCLP/SPLP lead, TCLP/SPLP manganese	2,986.1	8.0	7,963.0
2746-01-B32	None	TCLP/SPLP manganese	3,394.4	8.0	9,051.9
2746-01-B35	Arsenic	TCLP/SPLP manganese	2,744.4	8.0	7,318.5
2746-01-B39	None	TCLP/SPLP manganese	2,322.2	8.0	6,192.6
2746-01-B40	None	TCLP/SPLP lead, TCLP/SPLP manganese	1,636.1	8.0	4,363.0

**Table 4-5 Aggregate Estimates of Impacted Soil
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Contaminants of Concern		Estimated Surface Area of Impacted Soil (sq. yards)	Estimated Vertical Extent of Impacted Soil (feet)	Estimated Volume of Impacted Soil ^a (cubic yards)
	Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			
2746-01-B41	None	TCLP/SPLP manganese	2,111.1	10.0	7,037.0
2746-01-B43	None	TCLP/SPLP manganese	2,333.3	7.0	5,444.4
2746-01-B44	Lead	Benzo(a)pyrene, TCLP/SPLP manganese	2,566.7	14.0	11,977.8
2746-01-B45	None	TCLP/SPLP manganese	2,908.3	7.0	6,786.1
2746-01-B49	None	TCLP/SPLP manganese	1,888.9	13.0	8,185.2
2746-01-B53	None	TCLP/SPLP manganese	2,077.8	7.0	4,848.1
2746-01-B54	None	TCLP/SPLP manganese	2,077.8	20.0	13,851.9
2746-01-B55	None	TCLP/SPLP lead	1,558.3	8.0	4,155.6
2746-01-B56	Lead	None	2,125.0	8.0	5,666.7
2746-01-B57	None	TCLP/SPLP manganese	2,361.1	6.0	4,722.2
Aggregate Volume of Impacted Soil:					607,584
ISGS #2746-01A (IDOT ROW - Interchange of I-90 and Cumberland Ave)					
2746-01A-B02	None	TCLP/SPLP manganese	3,300.0	8.0	8,800.0
2746-01A-B03	None	Benzo(a)pyrene, TCLP/SPLP lead, TCLP/SPLP manganese	2,100.0	8.0	5,600.0
2746-01A-B04	None	Arsenic, TCLP/SPLP lead, TCLP/SPLP manganese	3,600.0	8.0	9,600.0
Aggregate Volume of Impacted Soil:					24,000
ISGS #2746-01B (IDOT ROW - Intersection of I-90 and Canfield Ave)					
2746-01B-B01	None	TCLP/SPLP manganese	1,251.1	8.0	3,336.3
2746-01B-B02	None (pH)	Benzo(a)pyrene, dibenzo(a,h)anthracene	1,203.3	3.0	1,203.3
Aggregate Volume of Impacted Soil:					4,540

**Table 4-5 Aggregate Estimates of Impacted Soil
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Contaminants of Concern		Estimated Surface Area of Impacted Soil (sq. yards)	Estimated Vertical Extent of Impacted Soil (feet)	Estimated Volume of Impacted Soil ^a (cubic yards)
	Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only			
ISGS #2746-02 (Chicago Transit Authority Tracks)					
2746-02-B01	Arsenic	TCLP/SPLP manganese	1,652.8	18.00	9,916.7
Aggregate Volume of Impacted Soil:					9,917

Note: Contaminants of concern are analytes that were detected at concentrations above one or more reference criteria.

^a The aggregate volume estimates are based on the following assumptions:

- Impacted soil volumes can be estimated using simple geometric shapes.
- The vertical extent of inorganic and PAH contamination is assumed to extend from the ground surface to the depth interval where the exceedance was observed. If multiple samples were collected, the impacted depth intervals to be adjusted accordingly.
- The vertical extent of VOC contamination is assumed to be contiguous between the interval where the exceedance was observed, and adjacent intervals with PID readings above background.
- The lateral extent of impacted soil is assumed to extend one-half the distance between an impacted boring and an adjacent unimpacted boring. If there are no borings within 100 feet, the impacted area will extend 50 feet from the boring in each direction.

Key:

COCs = Contaminants of concern.

ISGS = Illinois State Geological Survey.

MACs = Maximum allowable concentrations of chemical constituents in uncontaminated soil used as fill material at regulated fill operations.

MSA = Metropolitan Statistical Area.

PAH = Polynuclear aromatic hydrocarbon.

PID = Photoionization detector.

VOC = Volatile organic compound.

T/S = Toxicity characteristic leaching procedure/Synthetic precipitation leaching procedure.

**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
ISGS #2746-01 (IDOT ROW)						
2746-01-B01	I-90 (WB): Sta. 2994+25 to 2996+05	Manganese	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	374.7
				Storm Sewer	--	1,377.8
2746-01-B02	I-90 (WB): Sta. 2996+05 to 2998+25	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	435.4	--
				Storm Sewer	968.3	--
2746-01-B03	I-90 (WB): Sta. 2998+25 to 3000+15	None	Benzo(a)pyrene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	374.7	--
				Storm Sewer	909.9	--
2746-01-B04	I-90 (WB): Sta. 3000+15 to 3003+75	Lead	None	Road Reconstruction and Drainage Work	--	1,740.1
				Storm Sewer	--	599.4
2746-01-B05	I-190 (WB): Sta. 1009+85 to 1012+75	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	243.7	--
				Storm Sewer	1,573.9	--
				High Mast Post Foundation	14.0	--
				Sign Foundation	5.2	--
2746-01-B07	I-90(WB): Sta. 3005+45 to 3007+40;	None	TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	781.5	--
				Storm Sewer	1,293.6	--
				High Mast Post Foundation	14.0	--
2746-01-B08	I-90(WB): Sta. 3007+40 to 3009+75;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	740.2	--
				Storm Sewer	1,218.5	--
2746-01-B09	I-90(WB): Sta. 3009+75 to 3012+30;	None	TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	370.7	--
				Storm Sewer	54.2	--
2746-01-B10	I-90(WB): Sta. 3012+30 to 3014+65;	Copper and lead	Benzo(a)pyrene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	500.0
				Storm Sewer	--	947.3
				Storm Sewer	--	36.4

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**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

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Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
2746-01-B11	I-90(WB): Sta. 3014+65 to 3016+35	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	281.4	--
				Storm Sewer	826.7	--
				Storm Sewer	40.6	--
2746-01-B12	I-90(WB): Sta. 3016+35 to 3018+45	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	474.0	--
				Storm Sewer	905.0	--
				High Mast Post Foundation	14.0	--
2746-01-B13	I-90(WB): Sta. 3018+45 to 3020+80;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	750.4	--
				Storm Sewer	995.7	--
				Storm Sewer	49.2	--
				Storm Sewer	102.2	--
2746-01-B14	I-90(WB): Sta. 3020+80 to 3022+85;	None (pH)	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	693.0
				Storm Sewer	--	952.0
				Storm Sewer	--	42.5
				High Mast Post Foundation	--	14.0
2746-01-B15	I-90(WB): Sta. 3022+85 to 3025+00;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	623.8	--
				Storm Sewer	952.0	--
				Storm Sewer	45.0	--
2746-01-B16	I-90(WB): Sta. 3025+00 to 3027+10;	Benzo(a)anthracene, benzo(b)fluoranthene, pH	Benzo(a)pyrene, dibenzo(a,h)anthracene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	524.3
				Storm Sewer	--	952.0
				High Mast Post Foundation	--	14.0
2746-01-B17	I-90(WB): Sta. 3027+10 to 3029+50;	None (pH)	None	Road Reconstruction and Drainage Work	--	500.5
				Storm Sewer	--	960.0
				Storm Sewer	--	74.5
				Retaining Wall	--	172.2

**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

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Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
2746-01-B18	I-90(WB): Sta. 3029+50 to 3031+80;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	1,572.2	--
				Storm Sewer	1,064.0	--
				Storm Sewer	12.5	--
				High Mast Post Foundation	14.0	--
2746-01-B19	Ramp D: Sta 906+00 to 908+20	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	1,411.1	--
				High Mast Post Foundation	14.0	--
2746-01-B20	I-90 (WB): Sta. 3031+80 to 3033+70	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	36.6	--
				Storm Sewer	788.1	--
				Storm Sewer	34.6	--
				Storm Sewer	55.6	--
High Mast Post Foundation	14.0	--				
2746-01-B22	Ramp DD: Sta. 1006+40 to 1010+90	None	Benzo(a)pyrene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	1,505.9	--
2746-01-B23	Ramp DD: Sta. 1004+90 to 1006+40	Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	1,229.2
2746-01-B24	I-90 (WB): Sta.3035+50 to 3037+50	None	TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	726.9	--
				Storm Sewer	690.7	--
				Storm Sewer	37.8	--
				Storm Sewer	142.6	--
2746-01-B25	I-90 (WB): Sta.3037+50 to 3039+55	None	Benzo(a)pyrene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	638.3	--
				Storm Sewer	446.8	--
				Storm Sewer	41.6	--
				Storm Sewer	393.6	--
				Retaining Wall	583.9	--
				Camera Foundation	9.3	--

**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
2746-01-B26	I-90 (WB): Sta.3043+15 to 3045+35	None	TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	1,742.8	--
				Storm Sewer	531.5	--
				Storm Sewer	28.0	--
2746-01-B28	I-90 (WB): Sta.3047+50 to 3049+50	None	TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	1,381.0	--
				Storm Sewer	370.2	--
				Storm Sewer	36.2	--
2746-01-B29	I-90 (WB): Sta.3049+50 to 3051+60	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	627.5	--
				Storm Sewer	128.9	--
				Storm Sewer	39.9	--
				Storm Sewer	108.0	--
				Sign Foundation	10.5	--
2746-01-B30	I-90 (WB): Sta.3051+60 to 3053+50	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	573.7	--
				Storm Sewer	221.0	--
				Storm Sewer	39.7	--
2746-01-B31	I-90 (WB): Sta. 3053+50 to 3055+60	None	Benzo(a)pyrene, TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	522.5	--
				Storm Sewer	275.6	--
				Storm Sewer	26.0	--
2746-01-B32	I-90 (WB): Sta. 3055+60 to 3057+90	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	737.6	--
				Noise Wall	64.8	--
				Storm Sewer	342.4	--
2746-01-B35	I-90 (WB): Sta 3062+20 to 3064+15	Arsenic	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	1,310.4
				Noise Wall	--	351.9

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**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
2746-01-B39	I-90 (WB): Sta. 3070+00 to 3072+15	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	493.6	--
				Storm Sewer	445.9	--
				Retaining Wall	323.5	--
2746-01-B40	I-90 (WB): Sta. 3072+15 to 3074+10	None	TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	337.5	--
				Storm Sewer	419.6	--
				Retaining Wall	199.8	--
2746-01-B41	I-90 (WB): Sta. 3077+00 to 3079+00	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	339.6	--
				Storm Sewer	425.2	--
				Storm Sewer	84.6	--
				Noise Wall	370.4	--
				Retaining Wall	244.4	--
2746-01-B43	I-90 (WB): Sta. 3081+00 to 3083+00;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	451.5	--
				Storm Sewer	518.5	--
				Storm Sewer	30.9	--
				Retaining Wall	562.6	--
2746-01-B44	I-90 (WB): Sta. 3083+00 to 3085+25;	Lead	Benzo(a)pyrene, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	--	611.7
				Storm Sewer	--	676.7
				Storm Sewer	--	169.7
				Retaining Wall	--	466.7
2746-01-B45	I-90 (WB): Sta. 3085+25 to 3087+60;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	837.5	--
				Storm Sewer	846.9	--
				Storm Sewer	177.0	--
				Retaining Wall	294.2	--
2746-01-B49	I-90 (WB): Sta. 3093+80 to 3095+90	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	425.4	--
				Storm Sewer	736.3	--
				Storm Sewer	88.5	--
				Retaining Wall	144.8	--

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**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
2746-01-B53	I-90 (WB): Sta. 3103+85 to 3106+25	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	381.6	--
				Storm Sewer	447.2	--
2746-01-B54	I-90 (WB): Sta. 3106+25 to 3108+50	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	316.9	--
				Storm Sewer	410.1	--
				Sign Foundation	10.5	--
2746-01-B55	I-90 (WB): Sta. 3108+50 to 3110+20	None	TCLP/SPLP lead	Road Reconstruction and Drainage Work	418.4	--
				Storm Sewer	146.4	--
				Storm Sewer	117.9	--
2746-01-B56	I-90 (WB): Sta. 3110+20 to 3112+55	Lead	None	Road Reconstruction and Drainage Work	--	435.5
				Storm Sewer	--	241.8
2746-01-B57	I-90 (WB): Sta. 3112+55 to 3115+10	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	392.6	--
				Storm Sewer	16.1	--
				Storm Sewer	69.4	--
Total Volume of Impacted Soil in Construction Zone:					44,539	15,968
ISGS #2746-01A (IDOT ROW - Interchange of I-90 and Cumberland Ave)						
2746-01A-B02	I-90 (WB): Sta. 3041+35 to 3043+15;	None	TCLP/SPLP manganese	Road Reconstruction and Drainage Work	505.9	--
				Storm Sewer	350.1	--
				Storm Sewer	135.0	--
2746-01A-B03	Ramp CC: Sta 804+75 to 806+95	None	Benzo(a)pyrene, TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	570.0	--
				Storm Sewer	88.9	--
				Storm Sewer	110.0	--

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**Table 4-6 Estimate of Impacted Soil Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Boring ID	Impacted Stationing	Contaminants of Concern		Construction Feature Involving Excavation of Impacted Soil	Estimated Volume of Impacted Soil ^a (cubic yards)	
		Above All Applicable Comparison Criteria	Above Most Stringent MAC, Chicago MAC, or SCGIER Criteria Only		Eligible for CCDD or USFO	Non-Special Waste
2746-01A-B04	Ramp CC: Sta 802+50 to 804+75	None	Arsenic, TCLP/SPLP lead, TCLP/SPLP manganese	Road Reconstruction and Drainage Work	742.1	--
				Storm Sewer	135.0	--
				Storm Sewer	110.0	--
Total Volume of Impacted Soil in Construction Zone:					2,747	0
ISGS #2746-01B (IDOT ROW - Intersection of I-90 and Canfield Ave)						
2746-01B-B01	I-90 (WB): Sta. 3074+10 to 3075+55	None	TCLP/SPLP manganese	Road Reconstructon, Drainage Work, Storm Sewer	684.5	--
2746-01B-B02	I-90 (WB): Sta. 3075+55 to 3077+00	None (pH)	Benzo(a)pyrene, dibenzo(a,h)anthracene	Road Reconstruction, Drainage Work and Storm Sewer	--	684.5
Total Volume of Impacted Soil in Construction Zone:					685	685
ISGS #2746-02 (Chicago Transit Authority Tracks)						
2746-02-B01	I-90 (WB): Sta. 3099+60 to 3101+40	Arsenic	TCLP/SPLP manganese	Storm Sewer	--	29.0
Total Volume of Impacted Soil in Construction Zone:					0	29

Key:

COCs = Contaminants of concern.

ISGS = Illinois State Geological Survey.

MACs = Maximum allowable concentration of chemical constituents in uncontaminated

soil used as fill material at regulated fill operations.

T/S = Toxicity characteristic leaching procedure/synthetic precipitation leaching procedure.

MSA = Metropolitan Statistical Area.

PAH = Polynuclear aromatic hydrocarbon.

PID = Photoionization detector.

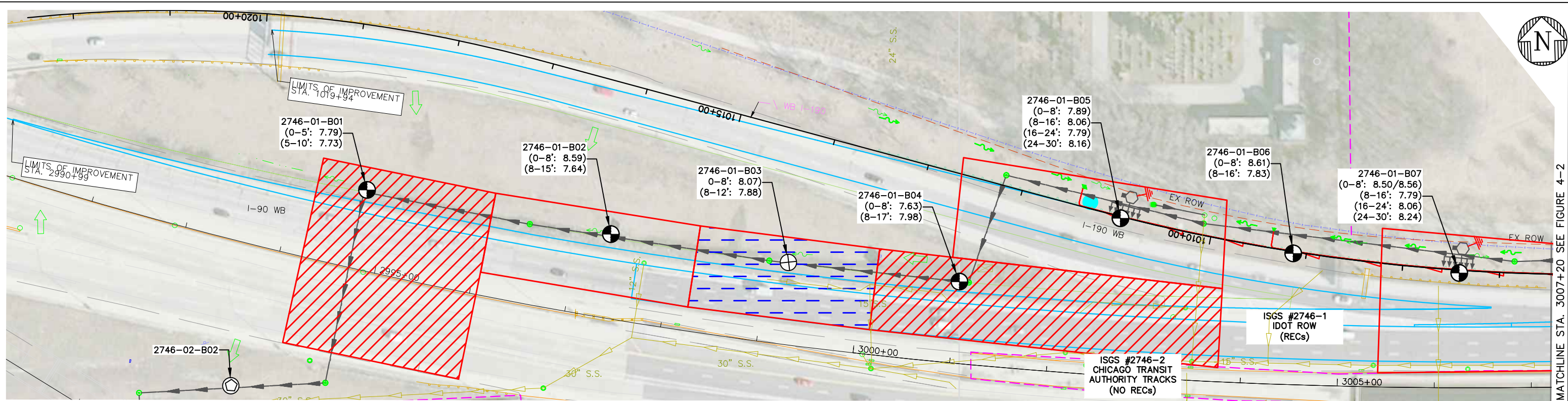
VOC = Volatile organic compound.

**Table 4-7 Estimate of Impacted Groundwater Within IDOT Construction Areas
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Impacted Groundwater Sample Near Construction Feature	Construction Feature	Contaminants of Concern Detected Above TACO Tier 1 Remediation Objectives	Depth to Groundwater (feet bgs)	Maximum Depth of Construction (feet bgs)	Estimated Dimensions of Excavation With Impacted Groundwater		Estimated Volume of Impacted Groundwater Within Excavation (gallons)
					Area (square yards)	Depth (yards bgs)	
ISGS #2746-01 (IDOT ROW)							
2746-01-G03	Sewer	Iron and manganese	9.0	17.0	164.44	2.7	88,569.3
Estimated Volume of Groundwater in Construction Zone:							88,569

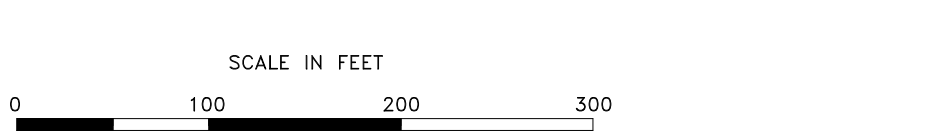
Key:

ISGS = Illinois State Geological Survey.
TACO = Tiered Approach to Corrective Action Objectives.



CONTAMINANTS OF CONCERN

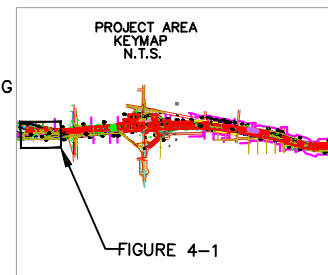
SITE	ISGS #2746-1 (IDOT ROW)																		Comparison Criteria									
	2746-01-B01		2746-01-B02		2746-01-B03		2746-01-B04		2746-01-B05		2746-01-B06		2746-01-B07		MACs		TACO											
SAMPLE	2746-01-B01 (0-5)	2746-01-B01 (5-10)	2746-01-B02 (0-8)	2746-01-B02 (8-15)	2746-01-B03 (0-8)	2746-01-B03 (8-12)	2746-01-B03 (9-10)	2746-01-B04 (0-8)	2746-01-B04 (8-17)	2746-01-B05 (0-8)	2746-01-B05 (8-16)	2746-01-B05 (16-24)	2746-01-B05 (24-30)	2746-01-B06 (0-8)	2746-01-B06 (8-16)	2746-01-B07 (0-8)	2746-01-B07 (8-16)	2746-01-B07 (16-24)	2746-01-B07 (24-30)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water		
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
DEPTH (feet)	0-5	5-10	0-8	8-15	0-8	8-12	9-10	0-8	8-17	0-8	8-16	16-24	24-30	0-8	8-16	0-8	0-8	8-16	16-24	24-30								
pH	7.79	7.73	8.59	7.64	8.07	7.88	NA	7.53	7.98	7.89	8.06	7.79	8.16	8.61	7.83	8.5	8.56	7.79	8.06	8.24								
SVOCs (soil: mg/kg, water: mg/L)																												
Benz[a]pyrene	ND U	ND U	ND U	ND U	0.16 †	ND U	ND U	0.074	ND U	ND U	ND U	ND U	ND U	0.049	ND U	0.06	0.044	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	—	0.0002	
Inorganics (soil: mg/kg, water: mg/L)																												
Cobalt	9.4	22 †	7.2	15	5.3	9.7	0.04	8.2	12	4.7	10	13	13	9.7	10	8.1	8.4	6.6	13	12	20	—	—	—	4,700	12,000	—	1
Iron	16,000	21,000 †m	12,000	19,000	12,000	14,000	18 W1,2	16,000	15,000	9,300	14,000	18,000	18,000	16,000	15,000	14,000	13,000	12,000	18,000	18,000	15,000	15,900	—	—	—	—	—	5
Lead	14	13	13	14	66	11	0.0067	230 †	12	12	9.9	12	15	17	12	68	71	8.3	12	12	107	—	—	—	400	700	—	0.0075
Manganese	300	1,800 †m	400	450	360	410	1.7 J W1	310	360	210	400	340	330	430	380	290	310	630	310	320	630	636	—	—	1,600	4,100	—	0.15
TCLP Metals (mg/L)																												
Cobalt	0.018 J	ND U	ND U	0.015 J	ND U	0.022 J	NA	0.027	0.034	0.016 J	0.05	0.014 J	0.018 J	ND U	0.019 J	ND U	ND U	0.014 J	0.013 J	0.017 J	—	—	—	—	—	—	1	—
Iron	0.24 J	ND U	ND U	ND U	ND U	ND U	NA	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	—	5	—
Lead	ND U	ND U	ND U	ND U	ND U	ND U	NA	0.11 L	0.0977 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.0082 L	ND U	ND U	ND U	—	—	—	—	—	—	0.0075	—
Manganese	4 L	0.51 L	1.3 L	2.2 L	2.8 L	2.5 L	NA	5.4 L	2 L	3.2 L	2.3 L	1.8 L	1.9 L	0.68 L	1.9 L	0.18 J L	0.72 J L	1.9 L	1.8 L	1.8 L	—	—	—	—	—	—	0.15	—
SPLP Metals (mg/L)																												
Lead	NA	NA	NA	NA	NA	NA	NA	0.0091 L	ND U	NA	NA	NA	NA	NA	NA	NA	0.017 L	NA	NA	NA	—	—	—	—	—	—	0.0075	—
Manganese	3.1 L	1.4 L	1.1 L	0.079	0.31 L	0.057	NA	0.011 J	0.11	0.28 L	0.15	0.35 L	0.42 L	0.079	0.1	0.52 J L	0.15 J	0.044	0.32 L	0.48 L	—	—	—	—	—	—	0.15	—



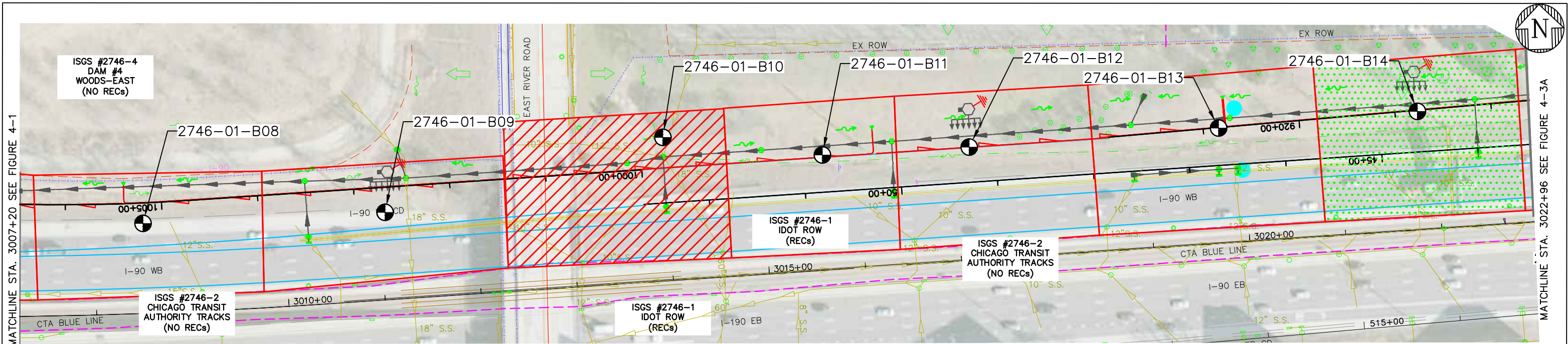
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE ALL APPLICABLE CRITERIA
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEED THE TACO REMEDIATION OBJECTIVE FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.
- PROPOSED CONSTRUCTION AREA WHERE ONE OR MORE COCS WERE DETECTED IN GROUNDWATER ABOVE TACO TIER 1 REMEDIATION OBJECTIVES.

Key to Data Table
 MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
 mg/kg = Milligrams per kilogram
 mg/L = Milligrams per liter
 MSA = Metropolitan Statistical Area
 TACO = Tiered Approach to Corrective Action Objectives
 TCLP = Toxicity Characteristic Leaching Procedure
 SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
 GCGIER = Groundwater Component of the Groundwater Ingestion Exposure Route
 SPLP = Synthetic Precipitation Leaching Procedure
 ND = Not detected
 NA = Not analyzed
 J = Estimated value
 U = Analyte was analyzed for but not detected
 † = Concentration exceeds the most stringent MAC
 m = Concentration exceeds the MAC for an MSA
 L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER
 r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure
 GCGIER = Groundwater Component of the Groundwater Ingestion Exposure Route (Class 1)
 W1,2 = Concentration exceeds the Tier 1 RO for the GCGIER (Class 1 and 2)
 * = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA
 * = Concentration exceeds applicable comparison criteria.

- LEGEND**
- EXISTING ROAD
 - PROPOSED ROAD
 - EXISTING CENTERLINES
 - EXISTING ROW
 - PROPOSED ROW
 - APPROXIMATE PESA SITE BOUNDARY
 - ⊕ (0-8': 8.8) — BORING LOCATION (DEPTH: pH)
 - ⊕ (0-8': 8.8) — TEMPORARY MONITORING WELL LOCATION
 - ⊕ — BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
 - PROPOSED STORM SEWER
 - PROPOSED UNDERDRAIN
 - ⊙ — PROPOSED SIGN STRUCTURE FOUNDATION
 - ⊙ — HIGH MAST LIGHT TOWER FOUNDATION
 - ⊙ — CAMERA TV FOUNDATION
 - ⊙ — CONVENTIONAL LIGHT POLE
 - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
 - PROPOSED GROUND MOUNTED NOISE BARRIER WALL
 - PROPOSED RETAINING WALL
 - PROPOSED DETENTION POND GRADING
 - EXISTING DITCH
 - PROPOSED DITCH
 - EXISTING MANHOLE
 - PROPOSED MANHOLE



ecology and environment, inc. Global Environmental Specialists		INVESTIGATION DATA SUMMARY – CONTRACT 60Y39 FAI 90 (I-90) STA. 2990+99 TO 3007+20			
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15	ROUTE: FAI 90 (I-90)	IDOT PROJECT #: P-91-128-12	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT	SCALE: 1" = 100'	DATE ISSUED: 3/1/16	C.A.D. FILE NO. EE9 W0005 PSL.DWG	FIGURE NO. 4-1
					REV. 0



CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)																				Comparison Criteria								
	2746-01-B08				2746-01-B09				2746-01-B10				2746-01-B11				2746-01-B12				2746-01-B13				2746-01-B14				MACs
SAMPLE	2746-01-B08 (0-7)	2746-01-B08 (7-14)	2746-01-B08 (0-8)	2746-01-B09 (8-16)	2746-01-B09 (16-24)	2746-01-B09 (24-30)	2746-01-B10 (0-6)	2746-01-B10 (6-11)	2746-01-B11 (0-7)	2746-01-B11 (7-14)	2746-01-B11 (14-20)	2746-01-B12 (0-8)	2746-01-B12 (8-16)	2746-01-B12 (16-24)	2746-01-B12 (24-30)	2746-01-B13 (0-8)	2746-01-B13 (8-15)	2746-01-B14 (0-8)	2746-01-B14 (8-16)	2746-01-B14 (16-24)	2746-01-B14 (24-30)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER		
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-7	7-14	0-8	8-16	16-24	24-30	0-6	6-11	0-7	7-14	14-20	0-8	8-16	16-24	24-30	0-8	8-15	0-8	8-16	16-24	24-30								
pH	7.45	7.91	7.95	7.88	7.85	7.67	8.14	8.19	8.16	7.92	8.18	8.06	7.95	8.29	8.48	8.51	8.02	9.17 #	8.09	8.32	8.18								
SVOCs (mg/kg)																													
Benzofluoranthene	0.02 J	ND U	0.064	ND U	ND U	ND U	0.2	0.0061 J	0.0061 J	ND U	ND U	ND U	ND U	ND U	0.0056 J	ND U	ND U	0.96 †	ND U	ND U	ND U	0.9	1.8	1.1	1.6	170	—		
Benzofluoranthene	0.014 J	ND U	0.05	ND U	ND U	ND U	0.19 †	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.87 †	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	—		
Benzofluoranthene	0.035 J	ND U	0.12	ND U	ND U	ND U	0.35	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	1.2 †	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	—		
Dibenzofluoranthene	ND U	ND U	ND U	ND U	ND U	ND U	0.058	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.12 †	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	—		
Inorganics (mg/kg)																													
Cadmium	ND U	0.073 J	0.12	ND U	0.13	ND U	2.7	0.036 J	0.083 J	ND U	ND U	0.16	0.078 J	ND U	ND U	0.056 J	ND U	0.071 J	ND U	ND U	ND U	5.2	—	—	78	200	—		
Chromium	21	16	17	16	6.5	19	28 †	4.9	12	15	17	13	5.4	17	12	11	15	8	16	18	17	21	—	—	230	690	—		
Copper	17	20	20	24	11	20	7,200 †	13	17	18	22	18	12	27	25	15	28	14	24	23	29	2,900	—	—	2,900	8,200	—		
Iron	16,000 †	15,000	16,000 †	19,000 †	8,000	18,000 †	28,000 †	8,900	17,000 †	16,000 †	19,000 †	16,000 †	7,900	18,000 †	16,000 †	11,000	19,000 †	12,000	16,000 †	16,000 †	17,000 †	15,000	15900	—	—	—	—		
Lead	16	9.7	31	11	5.9	11	330 †	7.6	20	11	12	18	6.4	13	13	27 J	15	10	12	14	16	107	—	—	400	700	—		
Manganese	230	340	290	500	330	300	330	430	230	320	320	380	460	340	450	230 J	370	400	360	310	300	630	636	—	1,600	4,100	—		
Selenium	ND U	0.65	0.4 J	ND U	ND U	0.38 J	2.1 †	0.5 J	0.39 J	0.28 J	ND U	0.31 J	0.28 J	ND U	0.34 J	ND U	0.34 J	ND U	0.34 J	ND U	ND U	1.3	—	—	390	1,000	—		
Zinc	76	68	79	64	51	55	5,300 †	43	63	45	57	55	50	56	61	54	50	56	56	55	53	5,100	—	—	23,000	61,000	—		
TCLP Metals (mg/L)																													
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	0.013 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	0.005		
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	0.1		
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	5		
Lead	ND U	ND U	0.0088 L	ND U	ND U	ND U	0.056 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	0.0075		
Manganese	6.7 L	2.3 L	8.5 L	1.9 L	2.6 L	1.9 L	1.4 L	1.9 L	1.5 L	2.4 L	2.3 L	1.9 L	1.6 L	2.5 L	1.9 L	1.3 L	2 L	1.7 L	2.3 L	2 L	2.2 L	—	—	—	—	—	0.15		
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	0.05		
Zinc	ND U	ND U	ND U	ND U	ND U	ND U	5.5 L	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.24 J	0.057 J	1.2	—	—	—	—	—	5		
SPLP Metals (mg/L)																													
Cadmium	NA	NA	NA	NA	NA	NA	ND U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—	—	—	—	—	0.005		
Lead	NA	NA	0.067 L	NA	NA	NA	0.064 L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—	—	—	—	—	0.0075		
Manganese	0.1	0.42 L	1.3 L	0.76 L	0.016 J	0.21 L	0.23 L	ND U	0.012 J	0.1	0.28 L	0.081	0.022 J	0.64 L	0.54 L	0.14	0.18 L	0.18 L	0.16 L	0.34 L	0.44 L	—	—	—	—	—	0.15		
Zinc	NA	NA	NA	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—	—	—	—	—	5		

SCALE IN FEET: 0, 100, 200, 300

LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING CENTERLINES
- EXISTING ROW
- PROPOSED ROW
- APPROXIMATE PESA SITE BOUNDARY
- BORING LOCATION (DEPTH: pH)
- BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED SIGN STRUCTURE
- HIGH MAST LIGHT TOWER FOUNDATION
- CAMERA TV FOUNDATION
- CONVENTIONAL LIGHT POLE
- PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
- PROPOSED GROUND MOUNTED NOISE BARRIER WALL
- PROPOSED RETAINING WALL
- PROPOSED DETENTION POND GRADING
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEED THE TACO REMEDIATION OBJECTIVE FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE pH IS OUTSIDE THE ACCEPTABLE RANGE FOR MANAGEMENT AT A CCDD FACILITY OR USFO.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE ALL APPLICABLE CRITERIA
- EXISTING DITCH
- PROPOSED DITCH
- EXISTING MANHOLE
- PROPOSED MANHOLE

Key to Data Table

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated FFI Operations
- mg/kg = Milligram per kilogram
- mg/L = Milligram per liter
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure
- ND = Not detected
- NA = Not analyzed
- J = Estimated value
- U = Analyte was analyzed for but not detected
- † = Concentration exceeds the most stringent MAC
- m = Concentration exceeds the MAC for an MSA
- L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER
- r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure
- = Concentration exceeds applicable comparison criteria

NOTES: CONTRACT 60Y39 COVERS WESTBOUND I-90

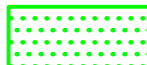


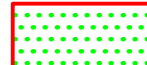
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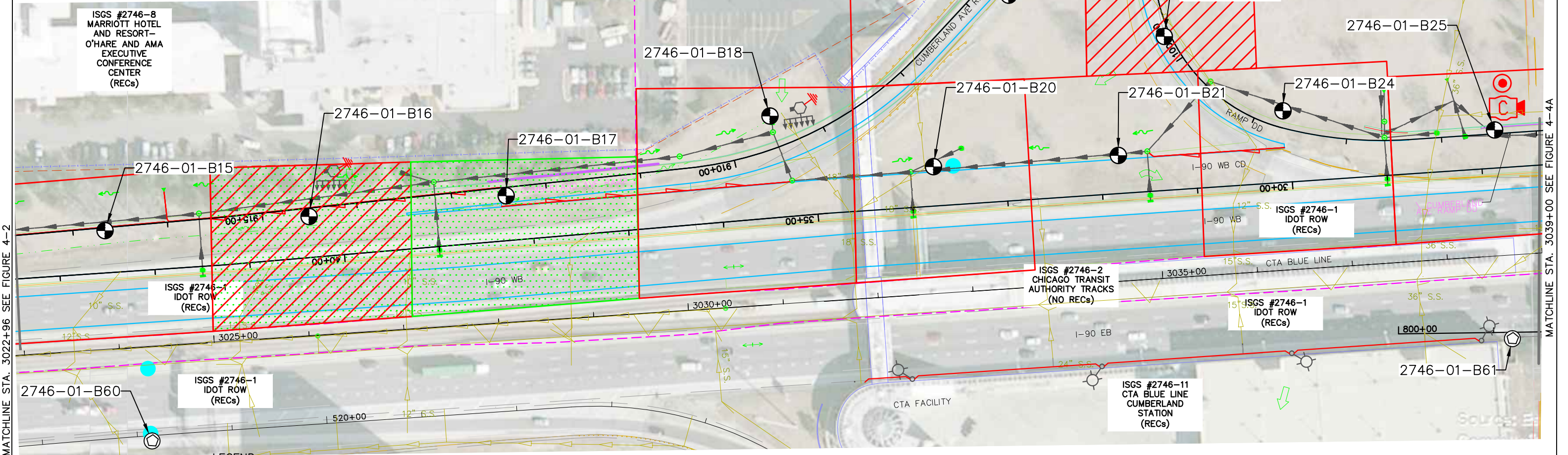
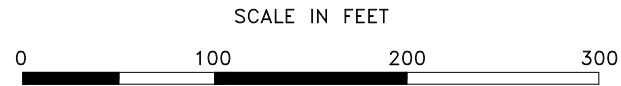
DESIGNED BY: S. COOPER
CHECKED BY: J. JENKINS
DRAWN BY: J. JENKINS
APPROVED BY: D. TIEBOUT






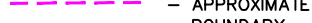
















**SUMMARY OF FINDINGS – CONTRACT 60Y39
FAI 90 (I-90) STA. 3007+20 TO 3022+87**

PTB/JOB #: 176-001/D-91-339-15
ROUTE: FAI 90 (I-90)
IDOT PROJECT #: P-91-128-12
CITY: CHICAGO/HARWOOD HEIGHTS/NORWOOD PARK
WORK ORDER #: 005A
COUNTY: COOK

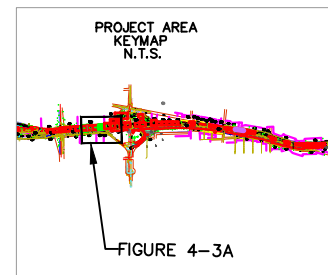
SCALE: 1" = 100'
DATE ISSUED: 3/1/16
C.A.D. FILE NO.: EE9 W0005 PSL.DWG
FIGURE NO.: 4-2
REV.: 0

-  COCS WERE NOT IDENTIFIED IN SOIL, BUT SOIL pH, IS OUTSIDE THE ACCEPTABLE RANGE FOR MANAGEMENT AT A CCDD FACILITY OR USFO.
-  PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE ALL APPLICABLE CRITERIA
-  PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEEDED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEED THE TACO REMEDIATION OBJECTIVE FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.
-  PROPOSED CONSTRUCTION EXCAVATION AREA WHERE pH IS OUTSIDE THE ACCEPTABLE RANGE FOR MANAGEMENT AT A CCDD FACILITY OR USFO.



- LEGEND**
-  - EXISTING ROAD
 -  - PROPOSED ROAD
 -  - EXISTING CENTERLINES
 -  - EXISTING ROW
 -  - PROPOSED ROW
 -  - APPROXIMATE PESA SITE BOUNDARY
 -  - BORING LOCATION (DEPTH: pH)
 -  - BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
 -  - PROPOSED STORM SEWER
 -  - PROPOSED UNDERDRAIN
 -  - PROPOSED SIGN STRUCTURE FOUNDATION
 -  - HIGH MAST LIGHT TOWER FOUNDATION
 -  - CAMERA TV FOUNDATION
 -  - CONVENTIONAL LIGHT POLE
 -  - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
 -  - PROPOSED GROUND MOUNTED NOISE BARRIER WALL
 -  - PROPOSED RETAINING WALL
 -  - PROPOSED DETENTION POND GRADING
 -  - EXISTING DITCH
 -  - PROPOSED DITCH
 -  - EXISTING MANHOLE
 -  - PROPOSED MANHOLE

NOTES: CONTRACT 60Y39 COVERS WESTBOUND I-90
SEE FIGURE 4-3B FOR CONTAMINANTS OF CONCERN



ecology and environment, inc. Global Environmental Specialists		SUMMARY OF FINDINGS – CONTRACT 60Y39 FAI 90 (I-90) STA. 3022+96 TO 3039+00	
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15	ROUTE: FAI 90 (I-90)
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT	IDOT PROJECT #: P-91-128-12	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK
		WORK ORDER #: 005A	COUNTY: COOK
		SCALE: 1" = 100'	DATE ISSUED: 3/1/16
		C.A.D. FILE NO.: EE9 W0005 PSI.DWG	FIGURE NO.: 4-3A
			REV.: 0

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)														Comparison Criteria					
	2746-01-B15		2746-01-B16				2746-01-B17		2746-01-B18				2746-01-B19		MACs			TACO		
BORING	2746-01-B15		2746-01-B16				2746-01-B17		2746-01-B18				2746-01-B19		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-01-B15 (0-8)	2746-01-B15 (8-17)	2746-01-B16 (0-8)	2746-01-B16 (8-16)	2746-01-B16 (16-24)	2746-01-B16 (24-30)	2746-01-B17 (0-8)	2746-01-B17 (8-16)	2746-01-B18 (0-8)	2746-01-B18 (8-16)	2746-01-B18 (16-24)	2746-01-B18 (24-30)	2746-01-B18 (24-30)D	2746-01-B19 (0-2)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-8	8-17	0-8	8-16	16-24	24-30	0-8	8-16	0-8	8-16	16-24	24-30	24-30	0-2						
pH	8.98	8.28	9.02 #	8.29	8.09	8.37	9.11 #	8.39	8.74	8.03	8.43	8.36	8.37	8.82						
SVOCs (mg/kg)																				
Benzo[a]anthracene	0.028 J	ND U	1.9 †m*	ND U	ND U	0.0075 J	0.043	ND U	0.077	ND U	ND U	0.0088 J	0.0061 J	0.013 J	0.9	1.8	1.1	1.8	170	--
Benzo[a]pyrene	0.025 J	ND U	1.6 †	ND U	ND U	ND U	0.043	ND U	0.086	ND U	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo[b]fluoranthene	0.039	ND U	2.9 †m*	ND U	ND U	ND U	0.071	ND U	0.16	ND U	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Dibenz[a,h]anthracene	ND U	ND U	0.2 †	ND U	ND U	ND U	ND U	ND U	0.012 J	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Inorganics (mg/kg)																				
Iron	14,000	13,000	8,900	15,000	14,000	14,000	10,000	9,500	11,000 J	16,000 †m	17,000 †m	15,000	16,000 †m	19,000 †m	15,000	15900	--	--	--	--
Manganese	340	350	460	370	300	260	390	350	240	380	320	350	270	330	630	636	--	1,600	4,100	--
TCLP Metals (mg/L)																				
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	1.5 L	1.8 L	1.9 L	2.5 L	1.9 L	2 L	1.7 L	1.7 L	1.8 L	2.3 L	2.1 L	1.9 L	1.8 L	0.74 L	--	--	--	--	--	0.15
SPLP Metals (mg/L)																				
Manganese	0.28 L	0.11	0.17 L	0.051	0.36 L	0.37 L	0.031	0.082	0.18 L	0.18 L	0.37 L	0.32 L	0.28 L	0.61 L	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)											Comparison Criteria					
	2746-01-B20			2746-01-B21		2746-01-B22	2746-01-B23	2746-01-B24	2746-01-B25			MACs			TACO		
BORING	2746-01-B20			2746-01-B21		2746-01-B22	2746-01-B23	2746-01-B24	2746-01-B25			Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-01-B20 (0-7)	2746-01-B20 (7-14)	2746-01-B20 (14-20)	2746-01-B21 (0-7)	2746-01-B21 (7-14)	2746-01-B22 (0-2)	2746-01-B23 (0-2)	2746-01-B24 (0-5)	2746-01-B25 (0-7)	2746-01-B25 (7-14)	2746-01-B25 (14-20)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-7	7-14	14-20	0-7	7-14	0-2	0-2	0-5	0-7	7-14	14-20						
pH	8.28	8.13	8.24	8.15	8.23	8.2	8.57	8.51	7.94	8.24	8.57						
SVOCs (mg/kg)																	
Benzo[a]anthracene	0.013 J	ND U	0.0055 J	0.04	ND U	0.22	12 †m*	0.0056 J	0.57 J	ND U	ND U	0.9	1.8	1.1	1.8	170	--
Benzo[a]pyrene	0.017 J	ND U	ND U	0.043	ND U	0.2 †	8.5 †m*	ND U	0.46 J †	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo[b]fluoranthene	0.021 J	ND U	ND U	0.06	ND U	ND U	14 †m*	ND U	0.77 J	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	0.79 †	ND U	0.14 J	ND U	ND U	0.6	--	--	32	6,200	--
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	ND U	0.026 J	0.84 †m*	ND U	0.04 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	0.022 J	ND U	0.096	2.4 †m*	ND U	0.14 J	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Inorganics (mg/kg)																	
Iron	17,000 †m	16,000 †m	18,000 †m	13,000	17,000 †m	18,000 †m	18,000 †m	10,000	16,000 †m	16,000 J †m	16,000 †m	15,000	15900	--	--	--	--
Lead	13	16	15	19	11	58	59	11	40	10	11	107	--	--	400	700	--
Manganese	370	330	370	520	420	350	370	120	490	390 J	440	630	636	--	1,600	4,100	--
TCLP Metals (mg/L)																	
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.0097 L	ND U	ND U	ND U	--	--	--	--	--	0.0075
Manganese	1.7 L	1.7 L	1.5 L	2 L	1.8 L	0.58 L	1.4 L	1.6 L	1.1 L	2.2 L	2.2 L	--	--	--	--	--	0.15
SPLP Metals (mg/L)																	
Lead	NA	NA	NA	NA	NA	NA	NA	0.05 L	NA	NA	NA	--	--	--	--	--	0.0075
Manganese	0.19 L	0.092	0.46 L	0.011 J	0.096	0.97 L	0.65 L	0.4 L	0.12	0.13	0.24 L	--	--	--	--	--	0.15

Key to Data Table

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

† = Concentration exceeds the most Stringent MAC, but is below the MAC for an MSA.

†m = Concentration exceeds the most stringent MAC and the MAC for Chicago.

ND = Not detected.

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

= pH is less than 6.25 or greater than 9.0 standard units.

† = Concentration exceeds the most stringent MAC.

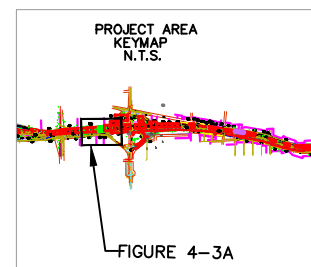
†m = Concentration exceeds the MAC for an MSA.

* = Concentration exceeds the MAC for Chicago corporate limits.

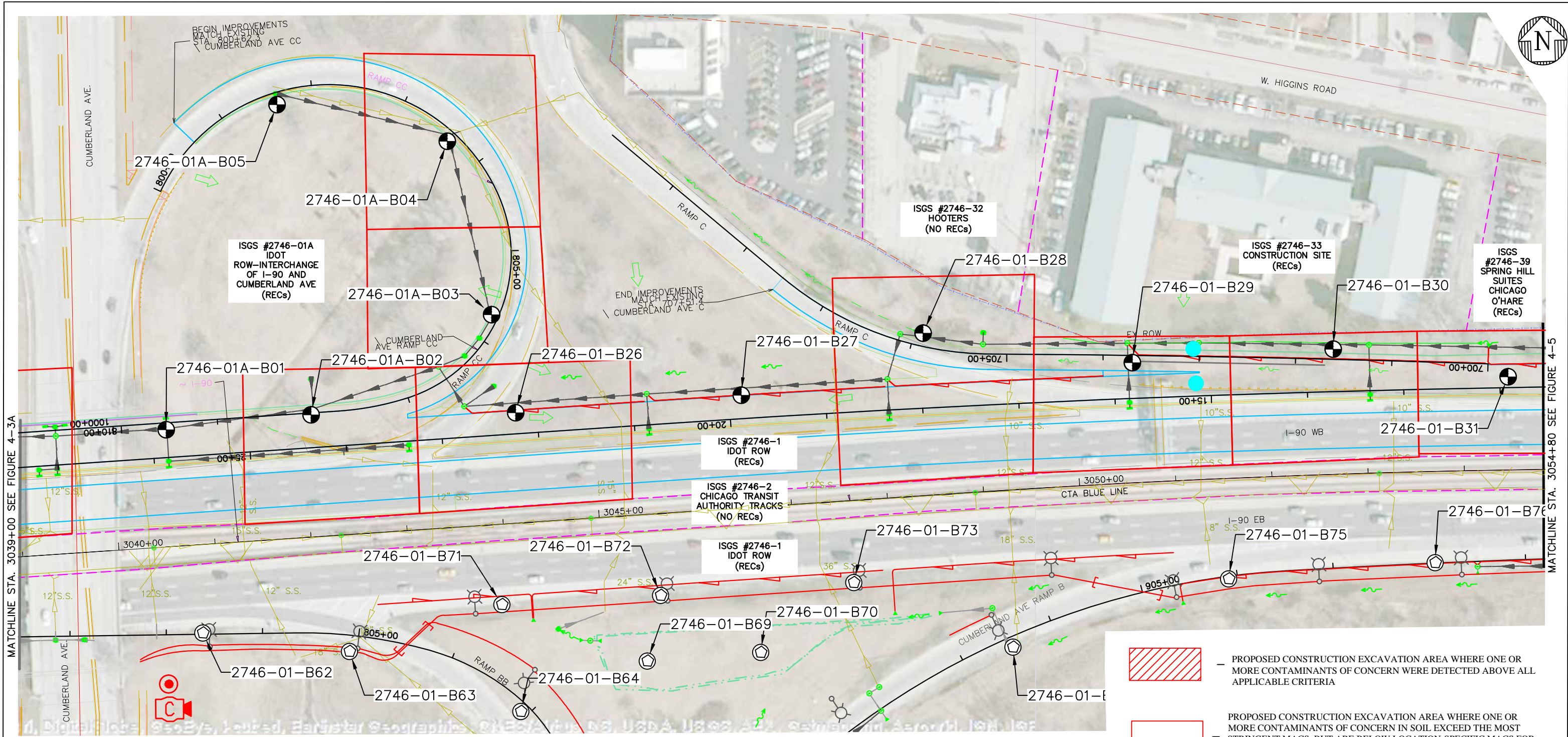
L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.

r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.

■ = Concentration exceeds applicable comparison criteria.



ecology and environment, inc. Global Environmental Specialists		CONTAMINANTS OF CONCERN – CONTRACT 60Y39 FAI 90 (I-90) STA. 3023+00 TO 3039+00			
DESIGNED BY:	CHECKED BY:	PTB/JOB #:	ROUTE: FAI 90 (I-90)		
S. COOPER	J. JENKINS	IDOT PROJECT #:	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK		
		WORK ORDER #:	COUNTY: COOK		
DRAWN BY:	APPROVED BY:	SCALE:	DATE ISSUED:	C.A.D. FILE NO.:	FIGURE NO.:
J. JENKINS	D. TIEBOUT	1" = 100'	3/1/16	EE9 W0005 PSI.DWG	4-3B
					REV. 0



MATCHLINE STA. 3039+00 SEE FIGURE 4-3A

MATCHLINE STA. 3054+80 SEE FIGURE 4-5

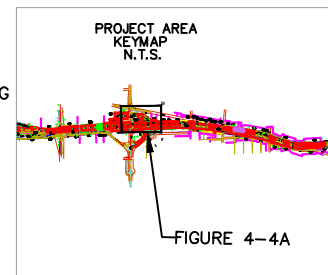
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE ALL APPLICABLE CRITERIA
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEEDED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEEDED THE TACO REMEDIATION OBJECTIVE FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.

LEGEND

- | | | | |
|--|--|--|---|
| | - EXISTING ROAD | | - PROPOSED UNDERDRAIN |
| | - PROPOSED ROAD | | - PROPOSED SIGN STRUCTURE FOUNDATION |
| | - EXISTING CENTERLINES | | - HIGH MAST LIGHT TOWER FOUNDATION |
| | - EXISTING ROW | | - CAMERA TV FOUNDATION |
| | - PROPOSED ROW | | - CONVENTIONAL LIGHT POLE |
| | - APPROXIMATE PESA SITE BOUNDARY | | - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL |
| | - BORING LOCATION (DEPTH: pH) | | - PROPOSED GROUND MOUNTED NOISE BARRIER WALL |
| | - BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38 | | - PROPOSED RETAINING WALL |
| | - PROPOSED STORM SEWER | | - PROPOSED DETENTION POND GRADING |
| | - PROPOSED UNDERDRAIN | | - EXISTING DITCH |
| | - PROPOSED SIGN STRUCTURE FOUNDATION | | - PROPOSED DITCH |
| | - HIGH MAST LIGHT TOWER FOUNDATION | | - EXISTING MANHOLE |
| | - CAMERA TV FOUNDATION | | - PROPOSED MANHOLE |
| | - CONVENTIONAL LIGHT POLE | | |
| | - PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL | | |
| | - PROPOSED GROUND MOUNTED NOISE BARRIER WALL | | |
| | - PROPOSED RETAINING WALL | | |



NOTES: CONTRACT 60Y39 COVERS WESTBOUND I-90
SEE FIGURE 4-4B FOR CONTAMINANTS OF CONCERN



ecology and environment, inc. Global Environmental Specialists		SUMMARY OF FINDINGS - CONTRACT 60Y39 FAI 90 (I-90) STA. 3039+00 TO 3054+80			
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15	ROUTE: FAI 90 (I-90)		
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT	IDOT PROJECT #: P-91-128-12	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK		
		WORK ORDER #: 005A	COUNTY: COOK		
SCALE 1" = 100'	DATE ISSUED 3/1/16	C.A.D. FILE NO. EE9 W0005 PSL.DWG	FIGURE NO. 4-4A	REV. 0	

CONTAMINANTS OF CONCERN																
SITE	ISGS #2746-1 (IDOT ROW)									Comparison Criteria						
	2746-01-B26		2746-01-B27	2746-01-B28		2746-01-B29		2746-01-B30	2746-01-B31		MACs			TACO		
BORING	2746-01-B26 (0-8)	2746-01-B26 (0-8)D	2746-01-B27 (0-8)	2746-01-B28 (0-8)	2746-01-B29 (0-7)	2746-01-B29 (7-14)	2746-01-B29 (14-20)	2746-01-B30 (0-8)	2746-01-B31 (0-8)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	0-8	0-8	0-8	0-7	7-14	14-20	0-8	0-8							
pH	8.44	8.42	8.68	7.77	8.23	7.95	8.56	8.76	8.9							
SVOCs (mg/kg)																
Benzo[a]pyrene	0.074	0.05	0.018 J	ND U	0.019 J	ND U	ND U	0.0089 J	0.19 †	0.09	2.1	1.3	2.1	17	—	
Inorganics (mg/kg)																
Chromium	16	18	20	14	22 †	20	21	25 †	21	21	—	—	230	690	—	
Iron	18,000 †m	16,000 †m	18,000 †m	18,000 †m	23,000 †m	19,000 †m	20,000 †m	22,000 †m	21,000 †m	15,000	15900	—	—	—	—	
Lead	19	17	14	14	14	13	13	18	44	107	—	—	400	700	—	
Manganese	300	230	450	120	240	280	330	190	500	630	636	—	1,600	4,100	—	
TCLP Metals (mg/L)																
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	0.1	
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	5	
Lead	ND U	0.0082 L	ND U	0.014 L	ND U	ND U	ND U	ND U	0.011 L	—	—	—	—	—	0.0075	
Manganese	0.5 L	0.89 L	0.33 L	1.2 L	3.3 L	1.3 L	2 L	0.58 L	0.28 L	—	—	—	—	—	0.15	
SPLP Metals (mg/L)																
Lead	NA	0.046 J L	NA	0.027 J L	NA	NA	NA	NA	0.087 L	—	—	—	—	—	0.0075	
Manganese	0.31 L	0.38 L	0.13	0.27 L	1.3 L	0.44 L	0.24 L	0.26 L	0.52 L	—	—	—	—	—	0.15	

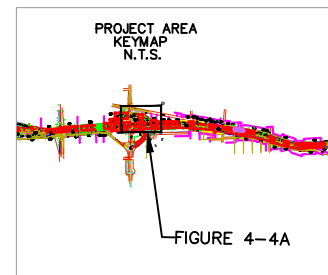
CONTAMINANTS OF CONCERN															
SITE	ISGS #2746-1A (IDOT ROW - Interchange of I-90 and Cumberland Ave.)					Comparison Criteria									
	2746-01A-B01	2746-01A-B02	2746-01A-B03	2746-01A-B04	2746-01A-B05	MACs			TACO						
BORING	2746-01A-B01 (0-8)	2746-01A-B02 (0-8)	2746-01A-B03 (0-8)	2746-01A-B04 (0-8)	2746-01A-B05 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER				
SAMPLE	Soil	Soil	Soil	Soil	Soil										
MATRIX	Soil	Soil	Soil	Soil	Soil										
DEPTH (feet)	0-8	0-8	0-8	0-8	0-8										
pH	7.52	8.37	8.89	8.37	7.52										
SVOCs (mg/kg)															
Benzo[a]pyrene	ND U	ND U	0.31 †	0.015 J	0.0092 J	0.09	2.1	1.3	2.1	17	—				
Inorganics (mg/kg)															
Arsenic	8.2	4.7	5.9	12 †	6.7 J	11.3	13	—	13	61	—				
Iron	18,000 †m	15,000	15,000	22,000 †m	18,000 †m	15,000	15,900	—	—	—	—				
Lead	17	14	23	35	15 J	107	—	—	400	700	—				
Manganese	710 †m	230	330	400	300	630	636	—	1,600	4,100	—				
TCLP Metals (mg/L)															
Iron	ND U	ND U	ND U	ND U	ND U	—	—	—	—	—	5				
Lead	ND U	ND U	0.0084 L	0.016 L	ND U	—	—	—	—	—	0.0075				
Manganese	2 L	0.23 L	4.6 L	0.84 L	2.2 L	—	—	—	—	—	0.15				
SPLP Metals (mg/L)															
Lead	NA	NA	0.08 L	0.2 L	NA	—	—	—	—	—	0.0075				
Manganese	ND U	0.19 L	0.63 L	0.33 L	0.017 J	—	—	—	—	—	0.15				

Key to Data Table

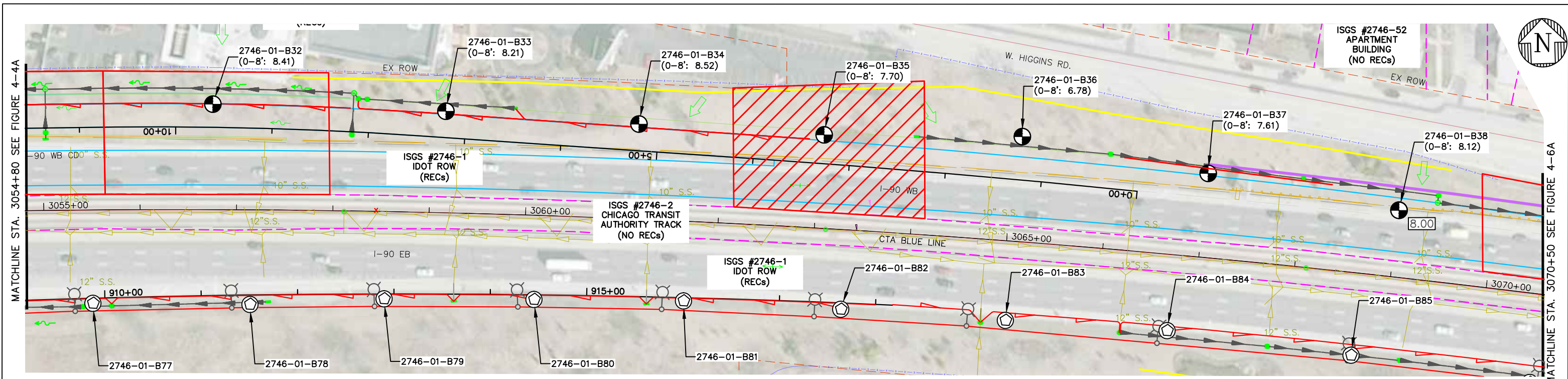
MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
MSA = Metropolitan Statistical Area
TACO = Tiered Approach to Corrective Action Objectives
TCLP = Toxicity Characteristic Leaching Procedure
SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure
ND = Not detected
NA = Not analyzed
J = Estimated value
U = Analyte was analyzed for but not detected
† = Concentration exceeds the most stringent MAC
m = Concentration exceeds the MAC for an MSA
L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER

Yellow background = Concentration exceeds the most Stringent MAC, but is below the MAC for an MSA
Grey background = Concentration exceeds applicable comparison criteria



ecology and environment, inc. Global Environmental Specialists		CONTAMINANTS OF CONCERN – CONTRACT 60Y39 FAI 90 (I-90) STA. 3039+00 TO 3054+80			
DESIGNED BY:	CHECKED BY:	PTB/JOB #:		ROUTE:	
S. COOPER	J. JENKINS	176-001/D-91-339-15		FAI 90 (I-90)	
DRAWN BY:	APPROVED BY:	IDOT PROJECT #:	CITY:	COUNTY:	
J. JENKINS	D. TIEBOUT	P-91-128-12	CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK	COOK	
SCALE:	DATE ISSUED:	C.A.D. FILE NO.:	FIGURE NO.:	REV.:	
1" = 100'	3/1/16	EE9 W0005 PSI.DWG	4-4B	0	



CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)							Comparison Criteria					
	BORING	2746-01-B32	2746-01-B33	2746-01-B34	2746-01-B35	2746-01-B36	2746-01-B37	2746-01-B38	MACs		TACO		
SAMPLE	2746-01-B32 (0-8)	2746-01-B33 (0-8)	2746-01-B34 (0-8)	2746-01-B35 (0-8)	2746-01-B36 (0-8)	2746-01-B37 (0-8)	2746-01-B38 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-8	0-8	0-8	0-8	0-8	0-8	0-8						
pH	8.41	8.21	8.52	7.7	6.78	7.61	8.12						
Inorganics (mg/kg)													
Arsenic	5.2	5.5	7.7	29	5.2	6.6	5.7	11.3	13	13	13	61	--
Chromium	19	24	19	23	21	19	19	21	--	--	230	690	--
Iron	18,000	22,000	20,000	22,000	19,000	18,000	18,000	15,000	15,900	--	--	--	--
Manganese	240	230	360	430	300	270	310	630	636	--	1,600	4,100	--
TCLP Metals (mg/L)													
Chromium	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	0.1
Iron	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	5
Manganese	0.66	0.31	0.08	0.32	0.51	0.79	1.6	--	--	--	--	--	0.15
SPLP Metals (mg/L)													
Manganese	0.43	0.15	NA	0.52	0.014	0.13	0.065	--	--	--	--	--	0.15

Key to Data Table

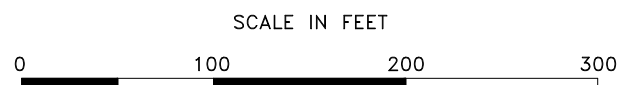
MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
 mg/kg = Milligrams per kilogram.
 mg/L = Milligrams per liter.
 MSA = Metropolitan Statistical Area
 TACO = Tiered Approach to Corrective Action Objectives
 TCLP = Toxicity Characteristic Leaching Procedure.
 SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
 = Concentration exceeds applicable comparison criteria.

SPLP = Synthetic Precipitation Leaching Procedure.
 ND = Not detected.
 NA = Not analyzed.
 J = Estimated value.
 U = Analyte was analyzed for but not detected
 † = Concentration exceeds the most stringent MAC.
 m = Concentration exceeds the MAC for an MSA.
 L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.
 r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.

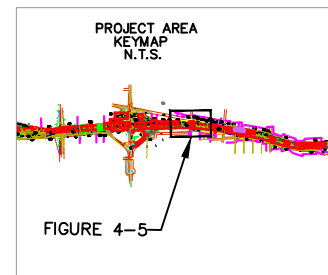
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEEDED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEEDED THE TACO REMEDIATION OBJECTIVE FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE ALL APPLICABLE CRITERIA

LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING CENTERLINES
- EXISTING ROW
- PROPOSED ROW
- APPROXIMATE PESA SITE BOUNDARY
- BORING LOCATION (DEPTH: pH)
- BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED SIGN STRUCTURE FOUNDATION
- HIGH MAST LIGHT TOWER FOUNDATION
- CAMERA TV FOUNDATION
- CONVENTIONAL LIGHT POLE
- PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
- PROPOSED GROUND MOUNTED NOISE BARRIER WALL
- PROPOSED RETAINING WALL
- PROPOSED DETENTION POND GRADING
- EXISTING DITCH
- PROPOSED DITCH
- EXISTING MANHOLE
- PROPOSED MANHOLE



NOTES: CONTRACT 60Y39 COVERS WESTBOUND I-90



ecology and environment, inc. Global Environmental Specialists		SUMMARY OF FINDINGS – CONTRACT 60Y39 FAI 90 (I-90) STA. 3054+80 TO 3070+50			
DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15		ROUTE: FAI 90 (I-90)	
DRAWN BY: J. JENKINS	APPROVED BY: D. TIEBOUT	IDOT PROJECT #: P-91-128-12	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK		COUNTY: COOK
SCALE 1" = 100'	DATE ISSUED 3/1/16	C.A.D. FILE NO. EE9 W0005 PSL.DWG	FIGURE NO. 4-5	REV. 0	

CONTAMINANTS OF CONCERN

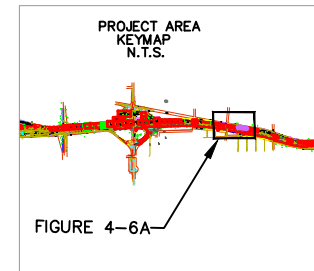
SITE	ISGS #2746-1 (IDOT ROW)												Comparison Criteria																	
	2746-01-B39		2746-01-B40		2746-01-B41		2746-01-B42		2746-01-B43		2746-01-B44		2746-01-B45		MACs			TACO												
BORING	2746-01-B39 (0-8)		2746-01-B40 (0-8)		2746-01-B41 (0-5)		2746-01-B41 (5-10)		2746-01-B42 (0-6)		2746-01-B42 (6-11)		2746-01-B43 (0-7)		2746-01-B43 (7-14)		2746-01-B44 (0-7)		2746-01-B44 (7-14)		2746-01-B45 (0-7)		2746-01-B45 (7-14)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
MATRIX	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil									
DEPTH (feet)	0-8		0-8		0-5		5-10		0-6		6-11		0-7		7-14		0-7		7-14		0-7		7-14							
pH	8.17		8.35		8.22		8.14		8.25		8.17		8.57		8.03		7.91		8.2		8.03		7.98							
SVOCs (mg/kg)																														
Benzo[a]pyrene	ND	U	ND	U	ND	U	ND	U	0.018	J	ND	U	0.016	J	ND	U	0.43	†	0.069	0.046	ND	U	0.09	2.1	1.3	2.1	17	--		
Inorganics (mg/kg)																														
Iron	18,000	†m	16,000	†m	17,000	†m	18,000	†m	16,000	†m	18,000	†m	14,000	†m	17,000	†m	21,000	†m	18,000	†m	18,000	†m	17,000	†m	15,000	15900	--	--	--	--
Lead	15		100		15		14		13		14		13		13		820	†rc	19	14	13	13	107	--	--	400	700	--		
Manganese	350		310		340		440		350		430		300		370		370		340	390	340	340	630	636	--	1,600	4,100	--		
TCLP Metals (mg/L)																														
Iron	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	--	--	--	--	--	5
Lead	ND	U	0.017	L	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	0.14	L	ND	U	ND	U	0.0083	L	--	--	--	--	--	0.0075
Manganese	1.5	L	2.2	L	1.4	L	1.5	L	1.4	L	1.6	L	2.3	L	2	L	1.8	L	1.9	L	2.1	L	1.9	L	--	--	--	--	--	0.15
SPLP Metals (mg/L)																														
Lead	NA		0.15	L	NA		NA		NA		NA		NA		NA		0.21	L	NA	NA	ND	U	--	--	--	--	--	0.0075		
Manganese	0.48	L	0.74	L	0.57	L	0.26	L	0.13		0.022	J	1	L	0.035		0.6	L	0.3	L	0.92	L	0.033	--	--	--	--	--	0.15	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1B (IDOT ROW - Intersection of I-90 and Canfield Ave.)				ISGS #2746-61 (IDOT ROW)		Comparison Criteria								
	2746-01B-B01		2746-01B-B02		2746-61-B01		MACs			TACO					
BORING	2746-01B-B01 (0-8)		2746-01B-B01 (0-8)		2746-01B-B02 (0-3)		2746-61-B01 (0-5)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
SAMPLE	Soil	Soil	Soil	Soil											
MATRIX	Soil	Soil	Soil	Soil											
DEPTH (feet)	0-8	0-8	0-3	0-5											
pH	8.59	8.41	11 #	8.71											
SVOCs (mg/kg)															
Benzo[a]pyrene	ND	U	ND	U	0.36	†	ND	UJ	0.09	2.1	1.3	2.1	17	--	
Dibenz(a,h)anthracene	ND	U	ND	U	0.1	J	†	ND	UJ	0.09	0.42	0.2	0.42	17	--
Inorganics (mg/kg)															
Iron	16,000	†m	17,000	†m	3,600	J	5,500	15,000	15,900	--	--	--	--	--	
Manganese	310		310		160	J	190	630	636	--	1,600	4,100	--		
TCLP Metals (mg/L)															
Iron	ND	U	ND	U	ND	U	ND	U	--	--	--	--	--	5	
Manganese	1.6	L	1.9	L	0.36	L	1.1	L	--	--	--	--	--	0.15	
SPLP Metals (mg/L)															
Manganese	0.34	L	0.34	L	ND	U	0.027	--	--	--	--	--	--	0.15	

Key to Data Table

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.
- c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.
- r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.
- Yellow background = Concentration exceeds the most Stringent MAC, but is below the MAC for an MSA.
- Grey background = Concentration exceeds applicable comparison criteria.



ecology and environment, inc. Global Environmental Specialists		CONTAMINANTS OF CONCERN – CONTRACT 60Y39 FAI 90 (I-90) STA. 3070+50 TO 3086+65			
DESIGNED BY:	CHECKED BY:	PTB/JOB #: 176-001/D-91-339-15		ROUTE: FAI 90 (I-90)	
S. COOPER	J. JENKINS	IDOT PROJECT #: P-91-128-12		CITY: CHICAGO/HARWOOD HEIGHTS/NORWOOD PARK	
		WORK ORDER #: 005A		COUNTY: COOK	
DRAWN BY:	APPROVED BY:	SCALE	DATE ISSUED	C.A.D. FILE NO.	FIGURE NO.
J. JENKINS	D. TIEBOUT	1" = 100'	3/1/16	EE9 W0005 PSI.DWG	4-6B
					REV. 0

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)									Comparison Criteria						
	2746-01-B46		2746-01-B47		2746-01-B48		2746-01-B49		2746-01-B49		MACs			TACO		
BORING											Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-01-B46 (0-5)	2746-01-B46 (5-10)	2746-01-B47 (0-7)	2746-01-B47 (7-13)	2746-01-B48 (0-7)	2746-01-B48 (7-13)	2746-01-B49 (0-6.5)	2746-01-B49 (6.5-13)	2746-01-B49 (6.5-13)D							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-5	5-10	0-7	7-13	0-7	7-13	0-6.5	6.5-13	6.5-13							
pH	7.91	7.88	7.76	7.87	7.95	8.1	8.13	8.36	8.27							
Inorganics (mg/kg)																
Iron	15,000	17,000 †m	19,000 †m	18,000 †m	18,000 †m	18,000 †m	20,000 †m	18,000 †m	20,000 †m	15,000	15900	--	--	--	--	
Manganese	300	440	410	340	350	380	350	390	510	630	636	--	1,600	4,100	--	
TCLP Metals (mg/L)																
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	
Manganese	1.5 L	2 L	1.6 L	2.1 L	2 L	1.8 L	1.9 L	1.8 L	1.8 L	--	--	--	--	--	0.15	
SPLP Metals (mg/L)																
Manganese	0.013 J	0.087	0.011 J	0.036	0.079	0.065	0.18 L	0.35 L	0.36 L	--	--	--	--	--	0.15	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria					
	2746-01-B50		2746-01-B51		2746-01-B52		MACs			TACO		
BORING							Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-01-B50 (0-6.5)	2746-01-B50 (6.5-13)	2746-01-B51 (0-7)	2746-01-B51 (7-14)	2746-01-B52 (0-6)	2746-01-B52 (6-12)						
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-6.5	6.5-13	0-7	7-14	0-6	6-12						
pH	7.96	8.36	7.96	8.11	7.97	7.95						
Inorganics (mg/kg)												
Iron	18,000 †m	19,000 †m	18,000 †m	19,000 †m	17,000 †m	18,000 †m	15,000	15900	--	--	--	--
Manganese	340	350	420	350	400	360	630	636	--	1,600	4,100	--
TCLP Metals (mg/L)												
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	2.2 L	1.7 L	1.9 L	2.2 L	2.2 L	1.9 L	--	--	--	--	--	0.15
SPLP Metals (mg/L)												
Manganese	0.032	0.025	0.13	0.031	0.059	0.033	--	--	--	--	--	0.15

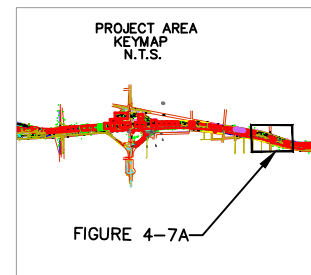
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-2 (Chicago Transit Authority Tracks)			Comparison Criteria					
	2746-02-B01			MACs			TACO		
BORING				Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-02-B01 (0-6)	2746-02-B01 (6-12)	2746-02-B01 (12-18)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	12-18						
pH	8.01	8.13	8.27						
Inorganics (mg/kg)									
Arsenic	7.7	6.5	14 †m	11.3	13	--	13	61	--
Chromium	24 †	17	11	21	--	--	230	690	--
Iron	20,000 †m	18,000 †m	21,000 †m	15,000	15,900	--	--	--	--
Manganese	390	350	530	630	636	--	1,600	4,100	--
TCLP Metals (mg/L)									
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	1.8 L	1.8 L	1.6 L	--	--	--	--	--	0.15
SPLP Metals (mg/L)									
Manganese	0.42 L	0.06	0.21 L	--	--	--	--	--	0.15

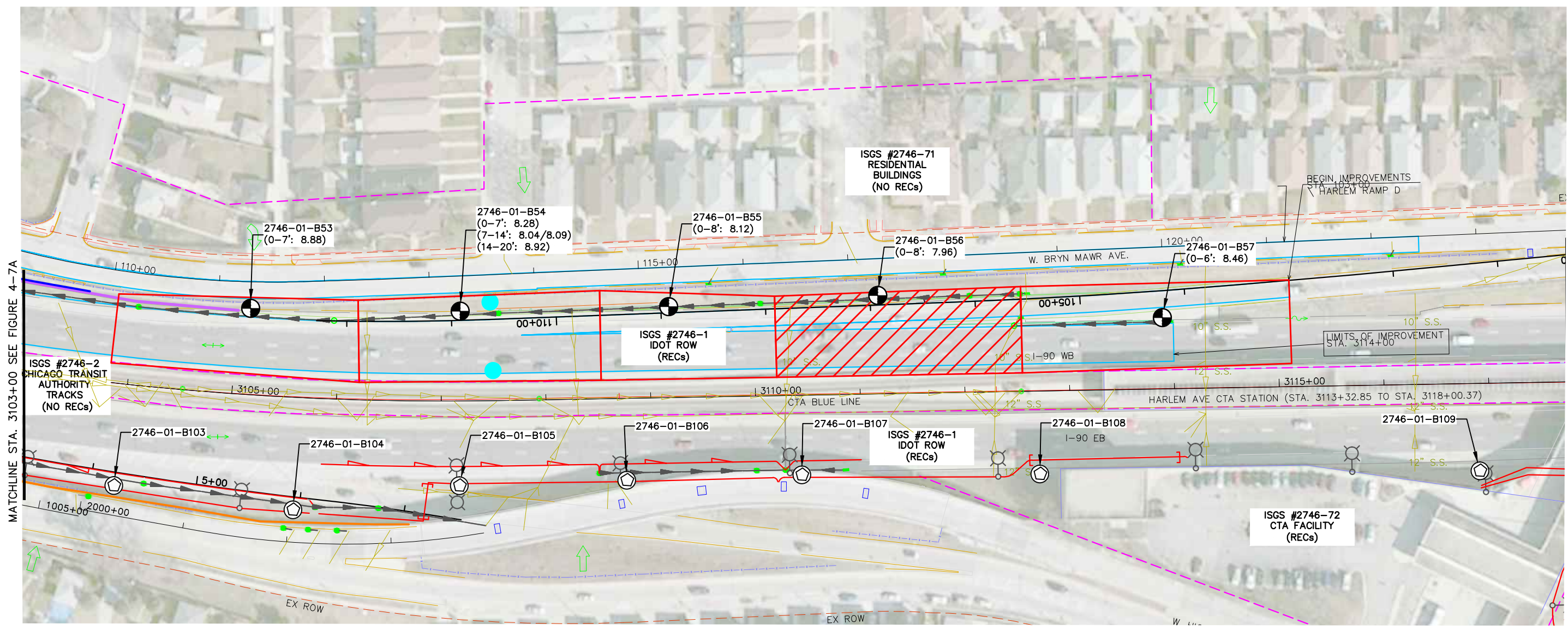
Key to Data Table

MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
 mg/kg = Milligrams per kilogram.
 mg/L = Milligrams per liter.
 MSA = Metropolitan Statistical Area
 TACO = Tiered Approach to Corrective Action Objectives
 TCLP = Toxicity Characteristic Leaching Procedure.
 SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
 SPLP = Synthetic Precipitation Leaching Procedure.
 = Concentration exceeds applicable comparison criteria.

ND = Not detected.
 NA = Not analyzed.
 J = Estimated value.
 U = Analyte was analyzed for but not detected.
 † = Concentration exceeds the most stringent MAC.
 m = Concentration exceeds the MAC for an MSA.
 L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.
 c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.
 r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.



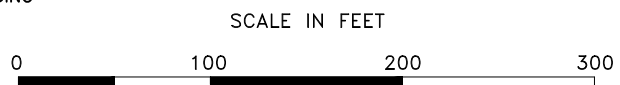
ecology and environment, inc. Global Environmental Specialists		CONTAMINANTS OF CONCERN – CONTRACT 60Y39 FAI 90 (I-90) STA. 3086+65 TO 3103+00			
DESIGNED BY:	CHECKED BY:	PTB/JOB #: 176-001/D-91-339-15		ROUTE: FAI 90 (I-90)	
S. COOPER	J. JENKINS	IDOT PROJECT #: P-91-128-12		CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK	
DRAWN BY:	APPROVED BY:	SCALE	DATE ISSUED	C.A.D. FILE NO.	FIGURE NO.
J. JENKINS	D. TIEBOUT	1" = 100'	3/1/16	EE9 W0005 PSI.DWG	4-7B
					REV.
					0



MATCHLINE STA. 3103+00 SEE FIGURE 4-7A

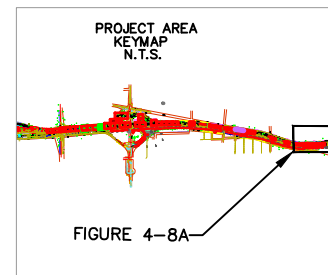
LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING CENTERLINES
- EXISTING ROW
- PROPOSED ROW
- APPROXIMATE PESA SITE BOUNDARY
- (0-8': 8.8) - BORING LOCATION (DEPTH: pH)
- BORING ADVANCED FOR EB I-90 UNDER CONTRACT 60Y38
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED SIGN STRUCTURE FOUNDATION
- HIGH MAST LIGHT TOWER FOUNDATION
- CAMERA TV FOUNDATION
- CONVENTIONAL LIGHT POLE
- PROPOSED STRUCTURE MOUNTED NOISE BARRIER WALL
- PROPOSED GROUND MOUNTED NOISE BARRIER WALL
- PROPOSED RETAINING WALL
- PROPOSED DETENTION POND GRADING
- EXISTING DITCH
- PROPOSED DITCH
- EXISTING MANHOLE
- PROPOSED MANHOLE



- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN WERE DETECTED ABOVE ALL APPLICABLE CRITERIA
- PROPOSED CONSTRUCTION EXCAVATION AREA WHERE ONE OR MORE CONTAMINANTS OF CONCERN IN SOIL EXCEED THE MOST STRINGENT MACS, BUT ARE BELOW LOCATION-SPECIFIC MACS FOR A METROPOLITAN STATISTICAL AREA OR TCLP/SPLP METALS EXCEED THE TACO REMEDIATION OBJECTIVE FOR THE SCGIER, BUT THE TOTAL METAL CONCENTRATION IS BELOW THE MAC.

NOTES: CONTRACT 60Y39 COVERS WESTBOUND I-90
SEE FIGURE 4-8B FOR CONTAMINANTS OF CONCERN



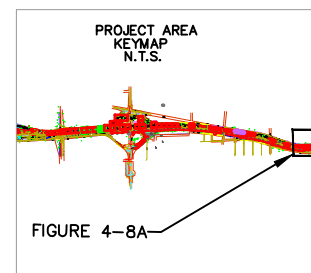
Global Environmental Specialists		SUMMARY OF FINDINGS - CONTRACT 60Y39 FAI 90 (I-90) STA. 3103+00 TO 3117+75			
		DESIGNED BY: S. COOPER	CHECKED BY: J. JENKINS	PTB/JOB #: 176-001/D-91-339-15	ROUTE: FAI 90 (I-90)
DRAWN BY: J. JENKINS		APPROVED BY: D. TIEBOUT	IDOT PROJECT #: P-91-128-12	CITY: CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK	
SCALE 1" = 100'	DATE ISSUED 3/1/16	C.A.D. FILE NO. EE9 W0005 PSI.DWG	FIGURE NO. 4-8A	REV. 0	
WORK ORDER #: 005A		COUNTY: COOK			


CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					ISGS #2746-1 (IDOT ROW)			Comparison Criteria						
	2746-01-B53	2746-01-B54				2746-01-B55	2746-01-B56	2746-01-B57	MACs			TACO			
BORING	2746-01-B53	2746-01-B54				2746-01-B55	2746-01-B56	2746-01-B57							
SAMPLE	2746-01-B53 (0-7)	2746-01-B54 (0-7)	2746-01-B54 (7-14)	2746-01-B54 (7-14)D	2746-01-B54 (14-20)	2746-01-B55 (0-8)	2746-01-B56 (0-8)	2746-01-B57 (0-6)							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-7	0-7	7-14	7-14	14-20	0-8	0-8	0-6							
pH	8.88	8.28	8.04	8.09	8.92	8.12	7.96	8.46	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	
Inorganics (mg/kg)															
Cadmium	ND U	0.056 J	ND U	0.054 J	0.053 J	0.074 J	1.7	0.05 J	5.2	--	--	78	200	--	
Chromium	18	18	17	17	18	19	26 †	17	21	--	--	230	690	--	
Iron	19,000 †m	18,000 †m	18,000 †m	19,000 †m	19,000 †m	18,000 †m	27,000 †m	17,000 †m	15,000	15900	--	--	--	--	
Lead	13	14	14	13	13	51	3,300 †rc	12	107	--	--	400	700	--	
Manganese	340	330	370	370	370	370	270	340	630	636	--	1,600	4,100	--	
TCLP Metals (mg/L)															
Cadmium	ND U	ND U	ND U	ND U	ND U	0.0096 L	0.0027 J	ND U	--	--	--	--	--	0.005	
Chromium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	
Iron	ND U	ND U	0.21 J	0.22 J	ND U	ND U	0.24 J	0.2 J	--	--	--	--	--	5	
Lead	ND U	ND U	ND U	ND U	ND U	0.18 L	0.07 L	ND U	--	--	--	--	--	0.0075	
Manganese	1.4 L	1.9 L	2 L	2 L	2 L	3.3 L	1.6 L	2.3 L	--	--	--	--	--	0.15	
SPLP Metals (mg/L)															
Cadmium	NA	NA	NA	NA	NA	ND U	NA	NA	--	--	--	--	--	0.005	
Lead	NA	NA	NA	NA	NA	0.031 L	0.01 L	NA	--	--	--	--	--	0.0075	
Manganese	0.71 L	0.71 L	0.04	0.042	0.26 L	0.073	0.073	0.98 L	--	--	--	--	--	0.15	

Key to Data Table

- MAC = Maximum Allowable Concentration of Chemical Constituent in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
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- SPLP = Synthetic Precipitation Leaching Procedure.
- █ = Concentration exceeds applicable comparison criteria.
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- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- L = The detected concentration exceeds the TACO Tier 1 RO for the SCGIER.
- c = Concentration exceeds a TACO Tier 1 RO for construction worker exposure.
- r = Concentration exceeds a TACO Tier 1 RO for residential soil exposure.



		CONTAMINANTS OF CONCERN – CONTRACT 60Y39 FAI 90 (I-90) STA. 3103+00 TO 3117+75			
DESIGNED BY:	CHECKED BY:	PTB/JOB #:	ROUTE:		
S. COOPER	J. JENKINS	176-001/D-91-339-15	FAI 90 (I-90)		
DRAWN BY:	APPROVED BY:	IDOT PROJECT #:	CITY:		
J. JENKINS	D. TIEBOUT	P-91-128-12	CHICAGO/HARWOOD HEIGHTS/ NORWOOD PARK		
		WORK ORDER #:	COUNTY:		
		005A	COOK		
SCALE	DATE ISSUED	C.A.D. FILE NO.	FIGURE NO.	REV.	
1" = 100'	3/1/16	EE9 W0005 PSI.DWG	4-8B	0	

5

Conclusions and Recommendations

E & E's investigation has identified COCs in project area soils and groundwater. The following sections summarize E & E's investigation findings and recommendation for classification and management of impacted soil based on the comparison with MACs and TACO Tier 1 ROs. E & E has included an uncontaminated soil certification form in Appendix E for sites where soil that was found to meet the criteria for off-site management at a CCDD facility or USFO.

E & E's field investigation was designed to provide an initial characterization of site conditions at pre-designated boring locations. The investigation was limited in terms of analytical parameters and the number of samples collected, based on the known history of the property. Consequently, the findings and conclusion of this investigation are subject to revision if more site data becomes available. Soil removed from outside E & E's investigation area that exhibits discoloration or odor indicative of contamination should be sampled to determine the proper disposal classification.

5.1 Estimated Soil Management Volumes and Costs

5.1.1 ISGS #2746-1 (IDOT ROW)

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, copper, lead, and manganese were identified as COCs in soil at ISGS #2746-1 (IDOT ROW). VOCs were not detected during headspace screening of site soil. The soil pH levels associated with borings 2746-01-B14, 2746-01-B16, and 2746-01-B17 were above the acceptable range for management of the soil at a CCDD facility or USFO. The soil pH levels associated with the remaining borings were within the acceptable range for management of soil at a CCDD facility or USFO.

Soil associated with the following borings must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 Illinois Compiled Statutes (ILCS) 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the following borings:

- 2746-01-B01 (manganese)
- 2746-01-B10 (benzo(a)pyrene, copper, lead, TCLP/SPLP manganese)
- 2746-01-B16 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, TCLP/SPLP manganese, pH)
- 2746-01-B23 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, TCLP/SPLP manganese)
- 2746-01-B35 (arsenic, TCLP/SPLP manganese)
- 2746-01-B44 (benzo(a)pyrene, lead, TCLP/SPLP manganese), and
- 2746-01-B56 (lead).

Soil associated with the following borings may be managed on-site as fill. If soil associated with these borings cannot be managed on-site, the soil must be managed off-site as non-special waste:

- 2746-01-B04 (lead)
- 2746-01-B14 (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, TCLP/SPLP manganese, pH), and
- 2746-01-B17 (pH).

Soil associated with the following borings may be managed on-site as fill. If the soil cannot be managed on-site, soil associated with the following borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago:

- 2746-01-B03 (benzo(a)pyrene, TCLP/SPLP manganese)
- 2746-01-B22 (benzo(a)pyrene, TCLP/SPLP manganese)
- 2746-01-B25 (benzo(a)pyrene, TCLP/SPLP manganese), and
- 2746-01-B31 (benzo(a)pyrene, TCLP/SPLP lead and TCLP/SPLP manganese).

Soil associated with the following borings may be managed on-site as fill. If the soil cannot be managed on-site, soil associated with the following borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO:

- 2746-01-B02 (TCLP/SPLP manganese)
- 2746-01-B05 (TCLP/SPLP manganese)
- 2746-01-B07 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B08 (TCLP/SPLP manganese)
- 2746-01-B09 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B11 (TCLP/SPLP manganese)

- 2746-01-B12 (TCLP/SPLP manganese)
- 2746-01-B13 (TCLP/SPLP manganese)
- 2746-01-B15 (TCLP/SPLP manganese)
- 2746-01-B18 (TCLP/SPLP manganese)
- 2746-01-B19 (TCLP/SPLP manganese)
- 2746-01-B20 (TCLP/SPLP manganese)
- 2746-01-B24 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B26 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B28 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B29 (TCLP/SPLP manganese)
- 2746-01-B30 (TCLP/SPLP manganese)
- 2746-01-B32 (TCLP/SPLP manganese)
- 2746-01-B39 (TCLP/SPLP manganese)
- 2746-01-B40 (TCLP/SPLP lead and TCLP/SPLP manganese)
- 2746-01-B41 (TCLP/SPLP manganese)
- 2746-01-B43 (TCLP/SPLP manganese)
- 2746-01-B45 (TCLP/SPLP manganese)
- 2746-01-B49 (TCLP/SPLP manganese)
- 2746-01-B53 (TCLP/SPLP manganese)
- 2746-01-B54 (TCLP/SPLP manganese)
- 2746-01-B55 (TCLP/SPLP lead)
- 2746-01-B57 (TCLP/SPLP manganese).

COCs were not identified in soil associated with borings 2746-01-B06; 2746-01-B21; 2746-01-B27; 2746-01-B33; 2746-01-B34; 2746-01-B36; 2746-01-B37; 2746-01-B38; 2746-01-B42; 2746-01-B46; 2746-01-B47; 2746-01-B48; 2746-01-B50; 2746-01-B51; and 2746-01-B52. Soil associated with these borings may be managed without restriction:

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-6, E & E estimates that approximately 15,968 cubic yards of soil at the site will require off-site disposal as non-special waste, and approximately 44,539 cubic yards of soil at the site may be managed off-site as uncontaminated soil. The estimated cost for off-site disposal of soil removed from the site is \$3,900,844.00. The estimated cost includes costs for management of impacted groundwater at the site, discussed in Section 5.3.

5.1.2 ISGS #2746-1a (IDOT ROW – Interchange of I-90 and Cumberland Ave.)

Benzo(a)pyrene, arsenic, lead, and manganese were identified as COCs in soil at ISGS #2746-1a (IDOT ROW – Interchange of I-90 and Cumberland Ave.) VOCs were not detected during headspace screening of site soil. The soil pH levels associated with the borings were within the acceptable range for management of the soil at a CCDD facility or USFO.

COCs were not identified in soil associated with borings 2746-01A-B01 and 2746-01A-B05. Soil associated with these borings may be managed without restriction

Soil associated with boring 2746-01A-B02 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO.

Soil associated with borings 2746-01A-B03 (benzo(a)pyrene, TCLP/SPLP lead and TCLP/SPLP manganese) and 2746-01A-B04 (arsenic, TCLP/SPLP lead and TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the borings may be managed off-site as uncontaminated soil at a CCDD facility or USFO within an MSA, including Chicago.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-6, E & E estimates that approximately 2,747 cubic yards of soil at the site may be managed off-site as uncontaminated soil. The estimated cost for off-site disposal of soil removed from the site is \$177,633.00.

5.1.3 ISGS #2746-1b (IDOT ROW – Intersection of I-90 and Canfield Ave.)

Benzo(a)pyrene, dibenzo(a,h)anthracene, and manganese were identified as COCs in soil at ISGS #2746-1b (IDOT ROW – Intersection of I-90 and Canfield Ave.). VOCs were not detected during headspace screening of site soil. The soil pH associated with boring 2746-01B-B02 was above the acceptable range for management of the soil at a CCDD facility or USFO. The pH levels for soil associated with boring 2746-01B-B01 were within the acceptable range for management of soil at a CCDD facility or USFO.

Soil associated with boring 2746-01B-B01 (TCLP/SPLP manganese) may be managed on-site as fill. If it cannot be managed on-site, soil associated with the boring may be managed off-site as uncontaminated soil at a CCDD facility or USFO.

Soil associated with boring 2746-01B-B02 (benzo(a)pyrene, dibenzo(a,h)anthracene, pH) may be managed on-site as fill. If it cannot be managed on-site, soil

associated with the boring must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-6, E & E estimates that approximately 685 cubic yards of soil at the site will require off-site disposal as non-special waste, and approximately 685 cubic yards of soil at the site may be managed off-site as uncontaminated soil. The estimated cost for off-site disposal of soil removed from the site is \$89,505.00.

5.1.4 ISGS #2746-2 (Chicago Transit Authority Tracks)

Arsenic and manganese were identified as COCs in soil at ISGS #2746-2 (Chicago Transit Authority Tracks). VOCs were not detected during headspace screening of site soil, and the soil pH levels associated with the boring were within the acceptable range for management of the soil at a CCDD facility or USFO.

Soil associated with boring 2746-02-B01 (arsenic, TCLP/SPLP manganese) must be managed off-site as non-special waste, providing that a non-special waste certification is submitted by the generator according to the conditions set forth in 415 ILCS 5/22.48 and 415 ILCS 5/3.475. The property history and available analytical data indicate a non-special waste certification can be applied to soil associated with the boring.

Costs estimated for the off-site disposal of soil are presented in Table 5-1. Based on the estimated construction excavation quantities presented in Table 4-6, E & E estimates that approximately 29 cubic yards of soil at the site will require off-site disposal as non-special waste. The estimated cost for off-site disposal of soil removed from the site is \$3,681.00.

5.1.5 ISGS #2746-61 (IDOT ROW)

COCs were not identified in soil at ISGS #2746-61 (IDOT ROW). VOCs were not detected during headspace screening of site soil, and the soil pH associated with the boring was within the acceptable range for management of the soil at a CCDD facility or USFO. Soil associated with boring 2746-61-B01 may be managed without restriction.

5.2 Soil Management Areas and Applicable Regulations

5.2.1 ISGS #2746-1 (IDOT ROW)

Station 2994+25 to Station 2996+05 (I-90 WB), 0 to 90 feet RT, and 0 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

5 Conclusions and Recommendations

Station 2996+05 to Station 2998+25 (I-90 WB), 20 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 2998+25 to Station 3000+15 (I-90 WB), 20 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

Station 3000+15 to Station 3003+75 (I-90 WB), 20 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead.

Station 1009+85 to Station 1012+75 (I-190), 0 to 40 feet RT, and 0 to 80 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 3005+45 to Station 3012+30 (I-90 WB), 15 to 140 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 3012+30 to Station 3014+65 (I-90 WB), 25 to 170 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: copper, lead, benzo(a)pyrene, and manganese.

Station 3014+65 to Station 3020+80 (I-90 WB), 20 to 170 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 3020+80 to Station 3022+85 (I-90 WB), 15 to 170 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)-anthracene, dibenzo(a,h)anthracene, manganese, and pH.

Station 3022+85 to Station 3025+00 (I-90 WB), 10 to 170 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

5 Conclusions and Recommendations

Station 3025+00 to Station 3027+10 (I-90 WB), 10 to 170 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)-anthracene, dibenzo(a,h)anthracene, manganese, and pH.

Station 3027+10 to Station 3029+50 (I-90 WB), 10 to 170 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: pH.

Station 3029+50 to Station 3033+70 (I-90 WB), 15 to 120 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 906+00 to Station 911+05 (Ramp D), 0 to 90 feet RT, and 0 to 120 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 1004+90 to Station 1006+40 (Ramp DD), 0 to 100 feet RT, and 0 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, benzo(b)fluoranthene, benzo(a)anthracene, carbazole, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and manganese.

Station 1006+40 to Station 1010+90 (Ramp DD), 0 to 115 feet RT, and 0 to 115 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

Station 3035+50 to Station 3037+50 (I-90 WB), 20 to 210 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: lead and manganese.

Station 3037+50 to Station 3039+55 (I-90 WB), 20 to 190 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene and manganese.

Station 3043+15 to Station 3045+35 (I-90 WB), 15 to 165 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of

5 Conclusions and Recommendations

Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: lead and manganese.

Station 3047+50 to Station 3049+50 (I-90 WB), 15 to 225 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: lead and manganese.

Station 3049+50 to Station 3053+50 (I-90 WB), 15 to 150 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3053+50 to Station 3055+60 (I-90 WB), 15 to 140 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09.
COC sampling parameters: benzo(a)pyrene, lead, and manganese.

Station 3055+60 to Station 3057+90 (I-90 WB), 15 to 140 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3062+20 to Station 3064+15 (I-90 WB), 15 to 155 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09.
COC sampling parameters: arsenic and manganese.

Station 3070+00 to Station 3072+15 (I-90 WB), 15 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3072+15 to Station 3074+10 (I-90 WB), 15 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: lead and manganese.

Station 3077+00 to Station 3079+00 (I-90 WB), 15 to 110 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3081+00 to Station 3083+00 (I-90 WB), 15 to 120 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of

Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3083+00 to Station 3085+25 (I-90 WB), 15 to 120 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09.
COC sampling parameters: benzo(a)pyrene, lead, and manganese.

Station 3085+25 to Station 3087+60 (I-90 WB), 15 to 125 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3093+80 to Station 3095+90 (I-90 WB), 15 to 90 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3103+85 to Station 3108+50 (I-90 WB), 20 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

Station 3108+50 to Station 3110+20 (I-90 WB), 20 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: lead.

Station 3110+20 to Station 3112+55 (I-90 WB), 20 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09.
COC sampling parameters: lead.

Station 3112+55 to Station 3115+10 (I-90 WB), 15 to 100 feet LT (IDOT ROW, PESA site 2746-1, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09.
COC sampling parameters: manganese.

5.2.2 ISGS #2746-1a (IDOT ROW – Interchange of I-90 and Cumberland Ave.)

Station 3041+35 to Station 3043+15 (I-90 WB), 20 to 185 feet LT (IDOT ROW, PESA site 2746-1a, Interchange of I-90 and Cumberland Ave): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 802+50 to Station 806+95 (Ramp CC), 0 to 120 feet LT and 0 to 160 feet RT (IDOT ROW, PESA site 2746-1a, Interchange of I-90 and Cumberland Ave): This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, lead, and manganese.

5.2.3 ISGS #2746-1b (Intersection of I-90 and Canfield Ave.)

Station 3074+10 to Station 3075+55 (I-90 WB), 15 to 100 feet LT (IDOT ROW, PESA site 2746-1b Intersection of I-90 and Canfield Ave.): This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance with Article 669.09. COC sampling parameters: manganese.

Station 3075+55 to Station 3077+00 (I-90 WB), 15 to 90 feet LT (IDOT ROW, PESA site 2746-1b Intersection of I-90 and Canfield Ave.): This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance with Article 669.09. COC sampling parameters: benzo(a)pyrene, dibenzo(a,h)anthracene, and pH.

5.2.4 ISGS #2746-2 (Chicago Transit Authority Tracks)

Station 3099+60 to Station 3101+40 (I-90 WB), 15 to 90 feet LT (Chicago Transit Authority Tracks, PESA site 2746-2, 7200-8900 blocks of I-90): This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance with Article 669.09. COC sampling parameters: arsenic, manganese.

5.3 Estimated Groundwater Management Volumes and Costs

5.3.1 ISGS #2746-1 (IDOT ROW)

Groundwater was encountered at a depth of 9 feet bgs in boring 2746-01-B03. Excavation in the vicinity of the boring is proposed to an approximate depth of 17 feet bgs for storm sewer installation; consequently, it is anticipated that groundwater will be encountered during construction at the site.

Costs estimated for disposal of impacted groundwater are presented in Table 5-1. E & E assumed that the one excavation volume of impacted groundwater (to the depth that groundwater was encountered) will require off-site management. Based on the estimated dimensions of excavation within the assumed area of impacted groundwater presented in Table 4-7, E & E estimates that approximately 88,569 gallons of water at the site will require off-site management as special waste if it cannot be managed within the excavation. The estimated cost for off-site disposal of the impacted water is \$26,570.70.

5.4 Recommendations

5.4.1 Additional Investigations

E & E does not recommend further investigation for this project. Soil and groundwater in the project area has been characterized with regard to IDOT con-

struction activities. Additional sampling may be required if soil is encountered that exhibits odor or discoloration indicative of contamination during construction excavation activities, or if activities extend beyond the previously investigated area. If groundwater exhibiting odor or discoloration is encountered during construction activities, the water should be sampled to determine proper management requirements.

5.4.2 Prevention of Accelerated Contaminant Migration

Soil containment and storm water runoff control measures are recommended to mitigate the migration of contaminants from any impacted soils that are stockpiled at the sites. If soil must be stockpiled, it should be stored in lined and covered roll-off boxes or segregated from other soils on storage pads designed to prevent migration of contaminants to unimpacted areas.

5.4.3 Comparison of Detected Soil Concentrations with TACO Tier 1 Remediation Objectives for Construction Worker Exposure

The COCs detected in site soil were also compared with TACO Tier 1 ROs for construction worker exposure. Lead was detected above the TACO Tier 1 RO for construction worker ingestion at ISGS #2746-1 (IDOT ROW). The affected borings and detected concentrations are listed in Table 5-2.

VOCs were not detected during headspace screening of site soil; however, chlorinated VOCs were detected below applicable reference concentrations at two boring locations at ISGS #2746-1 (IDOT ROW). If soil unearthed during excavation activities exhibits PID readings, odors, or discoloration indicative of contamination, E & E recommends that the soil be sampled to determine appropriate worker protection measures during construction activities. The health and safety of construction workers are the sole responsibility of the construction contractor, and Occupational Safety and Health Administration (OSHA) regulations should be adhered to during construction activities.

**Table 5-1 Estimated Disposal Costs for Impacted Soil and Groundwater Within IDOT Construction Areas
General Cost Breakdown for Construction Activities
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Site	Pay Item/Cost per Unit										Total Cost (Rounded to nearest dollar)
	SPECIAL WASTE PLANS AND REPORTS ^a \$262,412.00 lump sum		NON-SPECIAL WASTE DISPOSAL ^b \$60.00 per cubic yard		NON-SPECIAL WASTE DISPOSAL ^c \$60.00 per cubic yard		SPECIAL WASTE GROUNDWATER DISPOSAL \$0.30 per gallon		SOIL DISPOSAL ANALYSIS ^d \$875.00 each		
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
ISGS #2746-01 (IDOT ROW)	1	\$242,978.00	15,968	\$958,080.00	44,539	\$2,672,340.00	88,569.0	\$26,570.70	1	\$875.00	\$3,900,844.00
ISGS #2746-01A (IDOT ROW - Interchange of I-90 and Cumberland Ave)	1	\$11,938.00	0	\$0.00	2,747	\$164,820.00	--	\$0.00	1	\$875.00	\$177,633.00
ISGS #2746-01B (IDOT ROW - Intersection of I-90 and Canfield Ave)	1	\$6,430.00	685	\$41,100.00	685	\$41,100.00	--	\$0.00	1	\$875.00	\$89,505.00
ISGS #2746-02 (Chicago Transit Authority Tracks)	1	\$1,066.00	29	\$1,740.00	0	\$0.00	--	\$0.00	1	\$875.00	\$3,681.00

Notes:

^a Special waste plans assume the following documents and costs are required - 1) Site health and safety plan at \$700; 2) Site contamination operation plan at \$700; 3) Erosion control plan at \$700; and 4) one final environmental construction report at \$1,700. The total cost for documents described (\$3,800) is apportioned equally between the 4 potential waste properties listed above and assumes the activities will occur during one mobilization. This line item also includes labor, expenses, and equipment for air monitoring field oversight for a time period of approximately 324 days at \$800 per day (\$258,612 total); and is based on an excavation and loading rate of approximately 200 yd³ per day.

^b Material must be managed to a non-special waste disposal facility. Transportation costs are based on a generic 100-mile distance facility and a truck capacity of 14 cubic yards.

^c Although the disposal costs are estimated as a non-special waste, the material may be managed to a CCDD facility or USFO.

^d Disposal Analysis Methods: EPA Methods 1311, 8260B, 8270C, 8081, 8151A, 9045C, 1030, and 9095A.

**Table 5-2 Contaminants of Concern Above TACO Tier 1 Remediation Objectives for Construction Worker Exposure
FAI 90 (Interstate 90), Contract No. 60Y39
Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois**

Site	Boring	Sample Depth Interval (feet)	Contaminant of Concern	Detected Concentration (mg/kg)	TACO Tier 1 Soil RO for Construction Worker Exposure	
					Ingestion (mg/kg)	Inhalation (mg/kg)
ISGS #2746-01 (IDOT ROW)	2746-01-B44	0 - 7	Lead	820	700	---
	2746-01-B56	0 - 8	Lead	3,300		

Key:

mg/kg = Milligrams per kilogram.

RO = Remediation Objective.

TACO = Tiered Approach to Corrective Action Objectives.

6

References

Ecology and Environment, Inc., (E & E), January 11, 2016, FINAL *Preliminary Site Investigation Work Plan, FAI 90 (Interstate 90), Chicago, Harwood Heights, and Norwood Park, Cook County, Illinois*, prepared by Ecology and Environment, Inc., Chicago, Illinois.

Illinois State Geological Survey (ISGS), June 26, 2013, *Preliminary Environmental Site Assessment, FAI 90 (I-90), I-190 to IL 43, Chicago and Park Ridge, Cook County; River Forest quadrangle (USGS 7.5-minute topographic maps), T40N, R12E, Sections 1-3 and 10-12.*

A

ISGS PESA Excerpts

(Only the text portions of the PESA related to the E & E investigation sites are included in this appendix. Disregard any references in the text excerpts to PESA attachments, photographs, figures, and similar types of material, which have not been included in this appendix.)

Site 2746-1 (818/A-1, 1102V2-2, 1104V-10). IDOT ROW, 7200-8900 blocks of 1-90, Chicago (from west of East River Road to west of Harlem Avenue; Attachment 2, pages 1-5). This site is occupied by 1-90 and associated ROW that extends from the west to east project limits. The Chicago Transit Authority (CTA) Blue Line (Site 2746-2) is located in the median of the interstate. During the site inspections, one pole-mounted transformer was noted on this site at the southeast corner of Higgins Road and Cumberland Avenue, and one pole-mounted transformer was noted at the southeast corner of 1-90 and East River Road. Portions of 1-90 are excavated below grade. It is possible that fill may be present in the below-grade excavations. Sources of urban fill are typically unknown, and potential contaminants may be present in fill. Portions of this site are elevated above grade. The composition of the fill used at this site is unknown. This site did not appear on any of the regulatory lists checked for this project.

Aerial photos and Sanborn fire insurance maps indicated that this site was occupied by agricultural, residential, and commercial properties prior to the interstate being constructed. Aerial photos indicate the interstate was constructed between 1951 and 1962.

The following RECs have been identified within this site. Their locations are as described below and as shown on Attachment 2.

- Site 2746-1a (1102V2-2, 1104V-10). This site is located at the interchange of 1-90 and Cumberland Avenue (Attachment 2, page 2).

The following information has been modified from ISGS #1104V:

According to IEPA files reviewed for Site 2746-24 (IEPA#0312465032; Quick Mart 30110), in January 1993, Groundwater Technology, Inc. (GTI), installed a monitoring well (MW-9 on Attachment 10) in the W. Higgins Road ROW along the north side of this site. The well was completed in response to LUST incidents #891536 and #891810 for Site 2746-24. Between 1993 and 1997, groundwater samples were taken by the site consultants GTI, Fugro Midwest, Inc., and ERNS Corporation, and analyzed for BTEX. Groundwater was encountered in this well at depths ranging from 1.5 and 2.5 m (5 and 8.2 ft) bgs. BTEX concentrations in the groundwater were detected below laboratory detection limits. See Site 2746-24 for more information concerning LUST incidents #891536 and #891810.

No monitoring wells were observed during fieldwork for this project.

In soil samples from five soil borings completed at this site for PSI Andrews Engineering report #4 work order #14 in December 2011, metals and SVOCs were detected. No VOCs were detected. See PSI Andrews Engineering report #4 work order #14 for details.

- Site 2746-1b (818/A-1). This site is located at the intersection of 1-90 and Canfield Avenue (Attachment 2, page 4).

The following information has been modified from ISGS #818/A:

A 1950 Sanborn fire insurance map shows a gasoline station at this intersection. A city directory from 1953 listed K&H Service Station at this site (former address 7835 W. Higgins Road). This site was excavated when 1-90 was built. The City of Chicago contained no UST records for this site.

According to CDPH records, one 7,571-liter (2,000-gallon) fuel-oil UST was installed at this site in 1950. No evidence of any USTs were observed during inspections conducted by CDPH in 2011 and 2012. This site does not appear on the UST list. The status and location of this UST are unknown.

In one of two boreholes completed at this site in 1996 for ISGS #818/A, VOCs were detected. See ISGS #818/A for further information.

Potential hazards associated with service stations include waste-oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and USTs.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, non-petroleum chemical use or storage, or unusual or noxious odors was noted at this site during site inspections by ISGS on March 27, March 28, and June 4, 2013.

The following data gaps were identified at this site:

- The composition of the fill used at this site is unknown.
- The status and location of the USTs are unknown.

Because fill may be present, asbestos-containing materials and lead paint may be present at this site.

The following RECs were identified at this site: Possible USTs; potential former chemical use; metals and SVOCs detected in previous PSI testing; VOCs detected in previous ISGS testing; former monitoring well; fill of unknown composition.

The following de minimis conditions were identified at this site: Transformers; potential ACM and lead paint.

Site 2746-2 (1102V2-1, 1104V-11). Chicago Transit Authority tracks, 7200-8900 blocks of 1-90, Chicago (from west of East River Road to west of Harlem Avenue; Attachment 2, pages 1-5). This site is occupied by two "L" tracks for the CTA Blue Line train. This commuter rail line is located in the median of 1-90 (Site 2746-1). A small building was observed between the tracks at the west end of the Cumberland Station platform. This site did not appear on any of the regulatory lists checked for this project.

The following information has been modified from ISGS #1102V2:

On the 1938, 1951, and 1958 aerial photographs, the site was under primarily agricultural use. On the 1959 and 1960 aerial photographs, 1-90 was under construction. By the 1962 aerial photograph, both interstates were present with their medians occupied by vacant land. On the 1963 through 1979 aerial photographs, and 1975 Sanborn fire insurance map, the site was occupied by vacant state-owned ROW. According to the Chicago-L website, this segment of track (the O'Hare extension) was constructed in 1983-1984. A 1987 Sanborn map, and aerial photographs from 1988 and later, show that the site had its current configuration.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was noted at this site during site inspections by ISGS on March 27, March 28, and June 4, 2013.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore, lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 2746-61. IDOT ROW, 5700 block of N. Canfield Avenue, Chicago intersection of Higgins Road and Canfield Avenue, Chicago (Attachment 2, page 4). This site is occupied by a portion of IDOT ROW.

Aerial photos from 1938 to the present, and Sanborn fire insurance maps from 1949 to 1988, showed this site in its current configuration.

Under the name "ComEd Manhole" and the address "Canfield & Higgins St", this site appears on the BOL list (IEPA#0316105101). Under the name "ComEd" and the address "Canfield & Higgins St", this site appears on the RCRA list (USEPA #ILR0000154948). According to IEPA files, this site registered as a generator of 100-1,000 kg/month (220-2,200 lbs/month) of lead in 2008 due to a clean-out of the manhole on this site. As of 2009, this site no longer generated hazardous waste. No further information was available in IEPA files regarding this site.

No visual evidence of stressed vegetation, pits or depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors was noted at this site during site inspections by ISGS on March 27, March 28, and June 4, 2013.

No data gaps were identified at this site.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following REC was identified at this site: Evidence of former chemical use.

No de minimis conditions were identified at this site.

B

Boring Logs



Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B02

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98428475; W87.85201594**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/5/16**
 TOTAL DEPTH: **15 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.


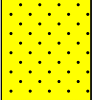
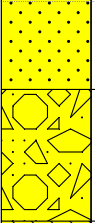
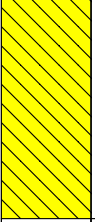
DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked topsoil, silt and sand, some fine gravel.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		SAND AND GRAVEL: Brown, poorly sorted sand and fine gravel, moist, loose.		0.0	



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B03 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
<p>-10</p> <p>-15</p>		SAND: Brown, moist, loose, fine.		0.0	
		SAND: Brown, saturated, loose, fine.			<p>8- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <p>Attempt to sample groundwater.</p> <p>Groundwater sample collected for VOC, SVOC, and total TAL metals analyses.</p>
		SAND AND GRAVEL: Coarse sand and fine gravel, loose, saturated.		0.0	
		CLAY: Gray, moist, stiff.	100	0.0	
		NO RECOVERY: 2.5 feet of saturated, loose, slough; and gravel cave-in from approximately 9 feet.	0	NR	
			NR		



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B04

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98414514; W87.85069652

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 2/5/16
TOTAL DEPTH: 17 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 5px auto;">Feet</div> -5		FILL: Reworked silt and clay, with gravel. FILL: Same as above. SAND: Grayish brown, very fine, moist, loose, with silt.	100 100	0.0 0.0 0.0 0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.

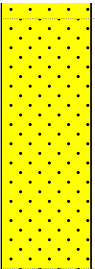
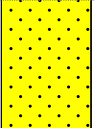
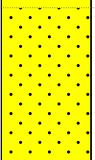
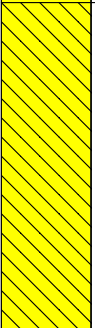


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B04 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		SAND: Grayish brown, moist, loose, fine to medium.	95	0.0	8- to 17-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SAND: Gray, poorly sorted, fine to coarse, with some fine gravel, moist, loose.		0.0	
		SAND: Same as above.		0.0	
-15		CLAY: Gray, dry, stiff, with trace gravel.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B05

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98432434; W87.85008776

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/12/16
TOTAL DEPTH: 30 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.



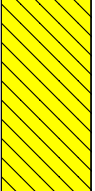
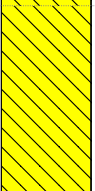
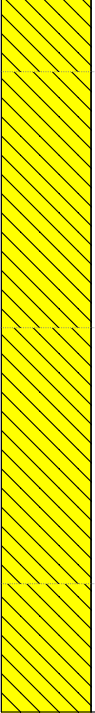
DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Reworked silt and topsoil. SAND: Brown and gray, very fine to coarse. poorly sorted, moist, loose. SAND: Same as above.	80 83 80	0.0 0.0 0.0 0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses. 8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B05 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
		SAND: Same as above.			
-15		CLAY: Gray, moist, soft, with trace gravel.	100	0.0	
-20		CLAY: Same as above.	100	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-25		CLAY: Same as above.	100	0.0	24- to 30-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-30		CLAY: Same as above.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B06

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.9842194; W87.84943137**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/12/16**
 TOTAL DEPTH: **16 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked topsoil, silt, and trace gravel.	53	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		FILL: Reworked silt and sand.		0.0	
-5		SAND: Brown and gray, moist, loose, medium-grained.	75	0.0	

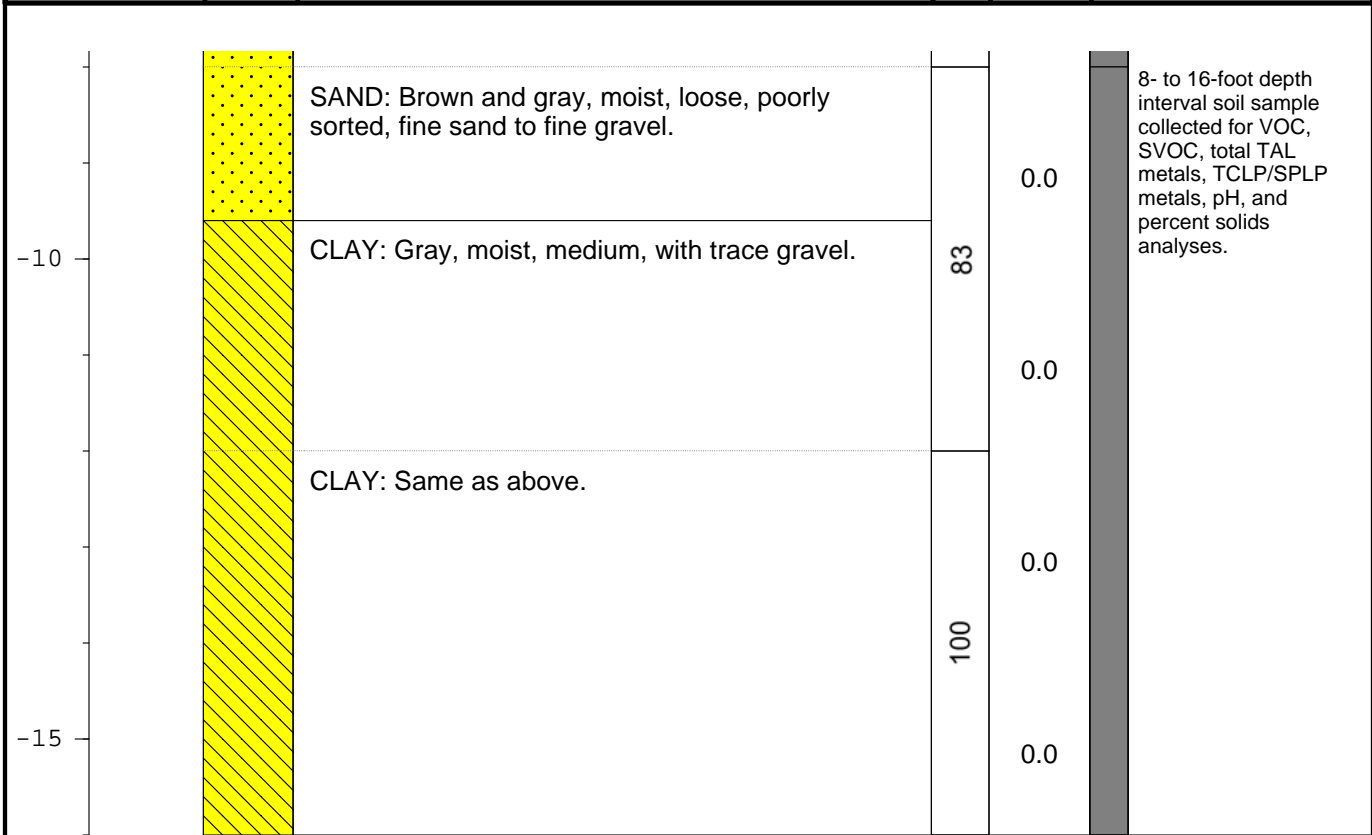


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B06 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B07

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98416146; W87.84880323**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/12/16**
 TOTAL DEPTH: **30 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

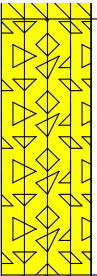
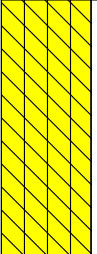
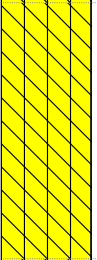
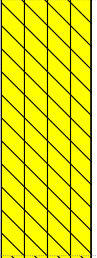
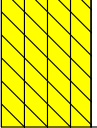
DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked topsoil, silt, and trace gravel.	50	0.0	0 to 8-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
				0.0	
-5		FILL: Reworked, brown silt and brown silty sand.	80	0.0	
				0.0	
-10		SILTY CLAY: Gray, moist, stiff.	65	0.0	
	SILTY GRAVEL: Gray, moist, medium.	0.0			
	SILTY CLAY: Gray, moist, stiff.	0.0			



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B07 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-15		SILTY GRAVEL: Gray, moist, medium.	43	0.0	
-20		SILTY CLAY: Gray, moist, medium, with trace gravel.	100	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-25		SILTY CLAY: Same as above.	100	0.0	
-25		SILTY CLAY: Same as above.	100	0.0	24- to 30-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-30		SILTY CLAY: Same as above.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B08

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98409998; W87.84798367**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/12/16**
 TOTAL DEPTH: **14 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt pavement.	93	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		FILL: Gravel subbase.			
		FILL: Reworked silt, gravel, and topsoil.			
-5		FILL: Reworked silt and clay, with topsoil and gravel.	100	0.0	

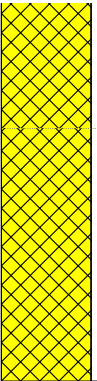
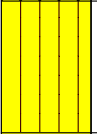
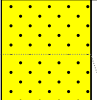
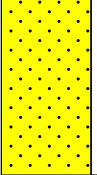


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B08 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		FILL: Same as above.	95	0.0	7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		SILT: Gray, moist, stiff.		0.0	
		SAND: Gray, moist, loose, poorly sorted, medium-grained.	0.0		
		SAND: Same as above.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B09

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98412379; W87.84706277

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/12/16
TOTAL DEPTH: 30 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.








DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>FILL: Asphalt pavement.</p> <p>FILL: Gravel subbase.</p> <p>NO RECOVERY</p> <p>FILL: Gravel and silt, with topsoil and clay.</p> <p>FILL: Same as above.</p> <p>NO RECOVERY</p>	<p>40</p> <p>88</p> <p>38</p>	<p>0.0</p> <p>NR</p> <p>0.0</p> <p>0.0</p> <p>0.0</p> <p>NR</p>	<p>0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p> <p>8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p>



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B09 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
		SILT: Brown, moist, stiff.			
		SAND: Brown and gray, moist, loose, poorly sorted, medium-grained sand to fine gravel.	35	0.0	
-15		NO RECOVERY		NR	
		SAND: Brown and gray, moist, loose, poorly sorted, medium-grained sand to fine gravel.	70	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
				0.0	
-20		SAND: Gray, moist, loose, well sorted, medium-grained.	85	0.0	
		CLAY: Gray, moist, soft, with trace gravel.		0.0	
-25		CLAY: Same as above.	90	0.0	24- to 30-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		CLAY: Same as above.	100	0.0	
-30		CLAY: Same as above.		0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B10

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.98433773; W87.84599822**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/15/16**
 TOTAL DEPTH: **11 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILTY CLAY: Dark brown, little fine to coarse sand, little fine gravel, stiff, moist.	75	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses. 6- to 11-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-5		SILTY CLAY: Same as above, medium, moist.		0.0	
-5		SAND: Brown, fine to medium, trace silt, trace fine gravel, medium, moist.	58	0.0	
-10		SAND: Brown, fine to coarse, some fine to coarse gravel, trace silt, medium, moist.	83	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B11

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.98428498; W87.84538907**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/15/16**
 TOTAL DEPTH: **20 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILTY CLAY: Dark brown, little fine to medium sand, little fine gravel, cinders, medium, moist.	50	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
	NO RECOVERY			NR	
-5		SANDY SILTY CLAY: Brown, fine to coarse sandy silty clay, little fine gravel, medium, moist.	58	0.0	
		SAND: Brown, fine to coarse, trace fine gravel, medium, moist.		0.0	
-10		SAND: Same as above, medium, moist to wet.	58	0.0	
				0.0	

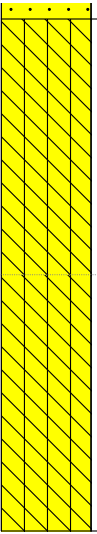


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B11 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-15		SILTY CLAY: Brownish gray, little fine gravel, stiff, moist.	63	0.0	14- to 20-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
-20					



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Geoprobe Boring Log Number: 2746-01-B12

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98430563; W87.84482856

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/15/16
TOTAL DEPTH: 30 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.










DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILTY CLAY: Dark brown to brown, little fine to medium sand, little fine gravel, stiff, moist.	38	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses. 8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-		NO RECOVERY		NR	
-5		SILTY CLAY: Interbedded brown silty clay, brown fine to coarse sand and fine gravel, medium, moist.	50	0.0	
-		NO RECOVERY		NR	
-10		SAND AND GRAVEL: Brown, fine to coarse sand and fine gravel, little silt, medium, moist.	38	0.0	
-		NO RECOVERY		NR	



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B12 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
		SAND AND GRAVEL: Gray, fine to coarse sand and fine gravel, medium, moist to wet.		0.0	
		SILTY CLAY: Brownish gray, trace fine gravel, stiff, moist.	38	0.0	
-15		NO RECOVERY		NR	
		SILTY CLAY: Brownish gray, little fine gravel, stiff, moist.	100	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-20		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
		SILTY CLAY: Same as above, stiff, moist.	100	0.0	24- to 30-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-25		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
-30		SILTY CLAY: Same as above, stiff, moist.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B13

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98435548; W87.84387482

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/15/16
TOTAL DEPTH: 15 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 5px auto;">Feet</div>		SILTY CLAY: Dark brown, little fine to medium sand, little fine gravel, medium to stiff, moist.	50	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		NO RECOVERY		NR	
-5		SANDY SILTY CLAY: Brown, fine to coarse sandy silty clay, little fine gravel, medium, moist.	68	0.0	
		SAND: Brown, silty, fine to medium, little fine gravel, medium, moist.		0.0	

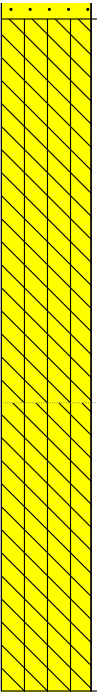


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B13 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		SILTY CLAY: Brownish gray, little fine sand, stiff, moist.	100	0.0	8- to 15-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		SILTY CLAY: Same as above, stiff, moist.		0.0	
-15				0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B14

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.98439968; W87.84311531**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/11/16**
 TOTAL DEPTH: **30 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

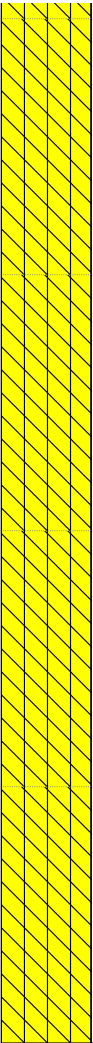
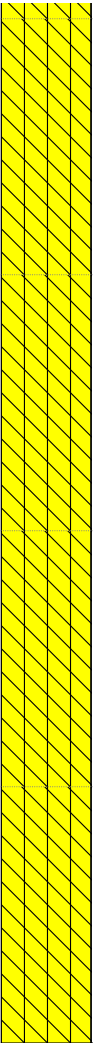
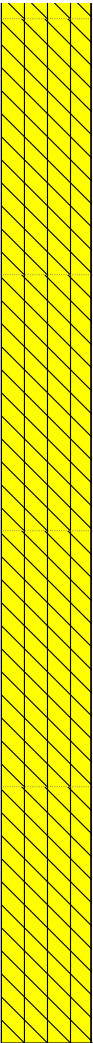
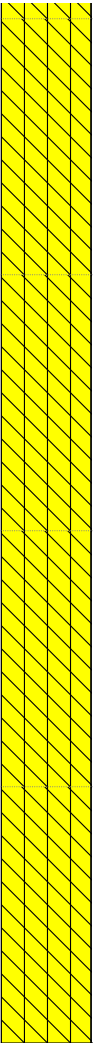
DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>SILTY CLAY: Dark brown to brown, little fine to coarse sand, little fine gravel, medium, moist.</p> <hr/> <p>SILTY SAND: Brown, fine to coarse sand, trace fine gravel, medium, moist.</p> <hr/> <p>SILTY CLAY: Brownish gray, trace fine to coarse gravel, stiff, moist.</p>	<p>58</p> <hr/> <p>63</p> <hr/> <p>100</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p> <hr/> <p>8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p>



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B14 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-15		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
-20		SILTY CLAY: Same as above, stiff, moist.	100	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-25		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
-25		SILTY CLAY: Same as above, stiff, moist.	63	0.0	24- to 30-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-30		NO RECOVERY: Lost core downhole.	NR	NR	

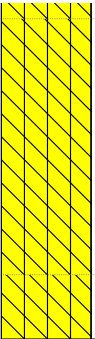



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B15 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-15		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
		SILTY CLAY: Same as above, stiff, moist.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B16

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.9844785; W87.84155236

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/11/16
TOTAL DEPTH: 30 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

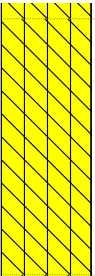
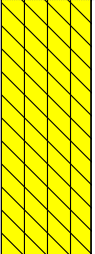
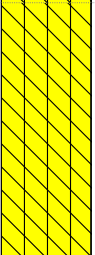
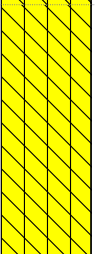
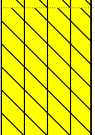
DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILTY CLAY: Dark brown, little fine to coarse sand, trace fine gravel, medium, moist.	50	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		NO RECOVERY		NR	
-5		SILTY SAND: Brown, fine to coarse sand, little fine gravel, medium, moist.	63	0.0	
		SILTY SAND: Same as above, medium, moist.		0.0	
-10		SILTY CLAY: Brownish gray, trace fine gravel, stiff, moist.	78	0.0	8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
				0.0	



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B16 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-15		SILTY CLAY: Same as above, some silt stringers throughout, stiff, moist.	100	0.0	
-20		SILTY CLAY: Brownish gray, trace fine gravel, stiff, moist.	88	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-25		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
-25		SILTY CLAY: Same as above, stiff, moist.	100	0.0	24- to 30-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-30		SILTY CLAY: Same as above, stiff, moist.	65	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B17

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.9845355; W87.84079016**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Dual Tube**
 DATE DRILLED: **2/11/16**
 TOTAL DEPTH: **16 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 5px auto;">Feet</div>		SILTY CLAY: Dark brown to brown, some fine to coarse sand, little very fine gravel, medium, moist.	43	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		NO RECOVERY	NR	NR	
-5		SILTY CLAY: Brown, little fine to coarse sand, little fine gravel, medium, moist.	68	0.0	
		SILTY SAND: Brown, fine to coarse sand, some very fine gravel, medium, moist.	68	0.0	

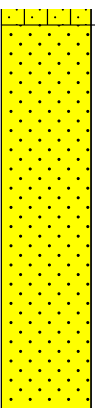

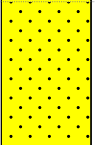
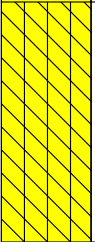


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B17 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		SAND: Brown to grayish brown, fine to coarse sand, little very fine gravel, trace silt, medium, moist to wet.	63	0.0	 8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		SAND: Same as above, medium, moist to wet.		0.0	
		SILTY CLAY: Brownish gray, trace fine gravel, occasional fine to coarse sandy silt seams, stiff, moist.	88	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B18

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.98476087; W87.83976692**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/11/16**
 TOTAL DEPTH: **30 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

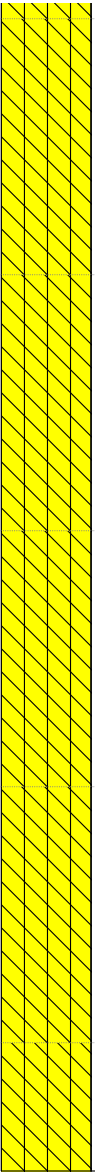
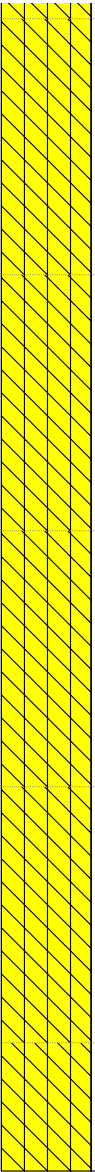
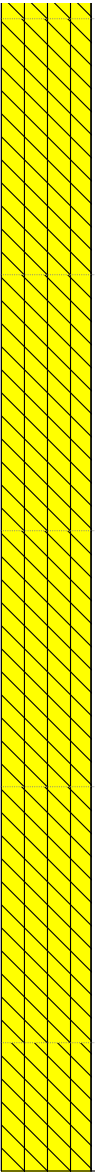
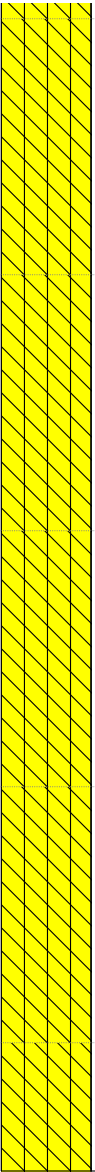
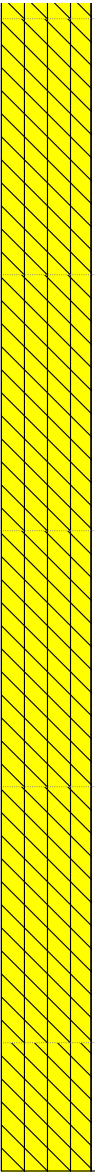
DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILTY CLAY: Dark brown to brown, some fine to coarse sand, trace fine gravel, medium, moist.	38	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses. 8- to 16-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		NO RECOVERY		0.0	
-5		SILTY CLAY: Dark brown to brown, some fine to coarse sand, trace fine gravel, medium, moist.	58	0.0	
		SILTY SAND: Brown, fine to coarse sand, little very fine gravel, medium, moist.		0.0	
-10		SILTY SAND: Same as above, medium, moist to wet.	63	0.0	
	SILTY CLAY: Brownish gray, trace very fine gravel, stiff, moist.	0.0			



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B18 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-15		SILTY CLAY: Same as above, with trace coarse gravel, stiff, moist.	63	0.0	
-20		SILTY CLAY: Same as above, stiff, moist.	75	0.0	16- to 24-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-25		SILTY CLAY: Same as above, stiff, moist.	100	0.0	
-25		SILTY CLAY: Dark brown, little very fine to fine gravel, very stiff, moist.	100	0.0	24- to 30-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-30		SILTY CLAY: Same as above, with trace coarse gravel, very stiff, moist.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B19

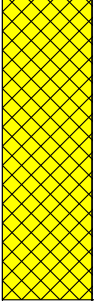
PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98510661; W87.8388414**

EQUIPMENT: **Stainless Steel Hand Auger**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Hand Auger**
 DATE DRILLED: **2/4/16**
 TOTAL DEPTH: **2 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked, brown clay and black topsoil.	100	0.0	0 to 2-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5					



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Geoprobe Boring Log Number: 2746-01-B20

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98461239; W87.83913643

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/10/16
TOTAL DEPTH: 20 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		SILTY CLAY: Dark brown, trace fine gravel, gray mottling at 1.2 feet, medium to stiff, moist.	43	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-	NO RECOVERY			NR	
-5		SILTY SAND: Brown, fine to coarse sand, little fine gravel, medium, moist.	50	0.0	7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-		SILTY CLAY: Brownish gray, trace fine gravel, stiff, moist.			
-	NO RECOVERY			NR	
-		SILTY CLAY: Brownish gray, trace fine to coarse gravel, stiff, moist.		0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B21

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98464116; W87.83842012

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/10/16
TOTAL DEPTH: 14 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 0 auto;">Feet</div> -5 -10		<p>SILTY CLAY: Dark brown, trace fine gravel, stiff, moist.</p> <hr/> <p>SILTY CLAY: Yellowish brown and gray mottled, little to some fine sand, little fine gravel, stiff, moist.</p> <hr/> <p>SILTY SAND: Dark brown, fine to coarse sand, medium, moist.</p> <hr/> <p>SILTY CLAY: Brownish gray, trace fine gravel, stiff, moist.</p>	55 75 83	0.0 0.0 0.0 0.0	<p>0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p> <hr/> <p>7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p>

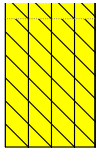


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B21 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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SILTY CLAY: Same as above, stiff, moist.

100

0.0



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Geoprobe Boring Log Number: 2746-01-B22

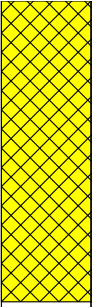
PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.9855837; W87.83798416**

EQUIPMENT: **Stainless Steel Hand Auger**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Hand Auger**
 DATE DRILLED: **2/4/16**
 TOTAL DEPTH: **2 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked clay, topsoil, and gravel.	100	0.0	0 to 2-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5					



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Geoprobe Boring Log Number: 2746-01-B23

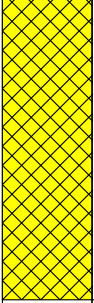
PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98498494; W87.83824052**

EQUIPMENT: **Stainless Steel Hand Auger**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Hand Auger**
 DATE DRILLED: **2/4/16**
 TOTAL DEPTH: **2 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked topsoil and clay, with gravel.	100	0.0	0 to 2-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5					



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B24

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98476769; W87.83778347**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **14 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Reworked silt, topsoil, and sand; trace gravel and clay.</p> <hr/> <p>SAND: Brown, moist, loose, silty, very fine.</p> <p>SAND: Brown, saturated, loose, very fine, with some silt.</p> <hr/> <p>SAND: Gray, saturated, loose, very fine- to medium-grained.</p>	<p>100</p> <hr/> <p>74</p>	<p>0.0</p> <p>0.0</p> <hr/> <p>0.0</p> <p>0.0</p>	<p>0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>

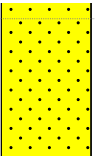
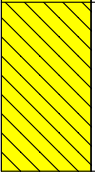


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B24 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-10		SAND: Same as above.	100	0.0	
		CLAY: Gray, moist, soft, with trace gravel.		0.0	



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Geoprobe Boring Log Number: 2746-01-B25

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98470932; W87.83696529**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **20 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> <p style="text-align: center;">-10</p> </div> </div>		<p>FILL: Reworked silt and topsoil.</p> <hr/> <p>FILL: Reworked sand, silt, gravel, and clay.</p> <hr/> <p>CLAY: Gray, moist, stiff, with trace gravel.</p> <p>CLAY: Same as above.</p>	<p>100</p> <hr/> <p>100</p> <hr/> <p>100</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p> <hr/> <p>7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>

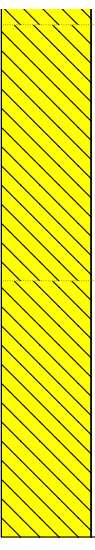


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B25 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-15		CLAY: Same as above.	80	0.0	14- to 20-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.		0.0	
-20			53	0.0	



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Geoprobe Boring Log Number: 2746-01-B26

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98475523; W87.8348972

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 2/9/16
TOTAL DEPTH: 8 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 5px auto;">Feet</div>		FILL: Reworked topsoil, clay, and silt; with some gravel.	100	0.0	0 to 8-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above.	100	0.0	
		SILTY CLAY: Brown and gray mottled, dry, stiff, with trace gravel.	0.0		



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B28

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98497465; W87.83333959**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked clay, silt, topsoil, sand, and gravel.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5		FILL: Same as above.	100	0.0	
				0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B29

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW, Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98488729; W87.83254086**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **20 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked silt and clay, with gravel.	100	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above.	100	0.0	
-10		SILTY CLAY: Brown and gray, dry, stiff.	100	0.0	7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-10		SILTY CLAY: Same as above.	100	0.0	

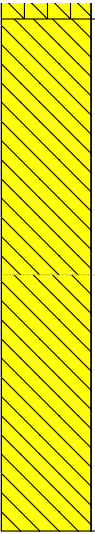


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B29 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-15		CLAY: Gray, moist, soft, with trace gravel.	100	0.0	14- to 20-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.		0.0	
-20				0.0	



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Geoprobe Boring Log Number: 2746-01-B30

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98492312; W87.83177227**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked silt and clay, with some topsoil and trace gravel.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5		FILL: Same as above.	100	0.0	
			0.0		



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B31

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98484082; W87.83110614**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Topsoil, reworked with silt and clay.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		SILT: Brown and gray mottled, moist, soft.		0.0	
		SILT: Same as above.	100	0.0	
-5		SILTY CLAY: Brown, dry, stiff, with trace gravel.		0.0	



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Geoprobe Boring Log Number: 2746-01-B32

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98487631; W87.83025944**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Reworked silt, with clay and topsoil.</p> <hr/> <p>FILL: Same as above.</p> <hr/> <p>SILTY CLAY: Brown, dry, stiff, with trace gravel.</p>	<p>100</p> <hr/> <p>100</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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Geoprobe Boring Log Number: 2746-01-B33

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98485228; W87.82937035**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/9/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked, moist, silt and topsoil, with clay.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Same as above.		0.0	
-5		SILTY CLAY: Brown, dry, stiff, with trace gravel.	100	0.0	
				0.0	



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Geoprobe Boring Log Number: 2746-01-B39

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.98453405; W87.82497764**

EQUIPMENT: **Geoprobe 6620 DT**
 OPERATOR: **RDNP**
 SAMPLING METHOD: **Macro-Core**
 DATE DRILLED: **2/10/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.			0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		FILL: Dark brown to brown silt, sand and gravel, medium, moist.		0.0	
		SILTY CLAY: Brownish gray, trace fine to coarse gravel, stiff, moist.	83	0.0	
		SILTY CLAY: Same as above, stiff, moist.	83	0.0	
-5				0.0	
				0.0	



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Geoprobe Boring Log Number: 2746-01-B40

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98444348; W87.82425034

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Macro-Core
DATE DRILLED: 2/10/16
TOTAL DEPTH: 8 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 <div style="border: 1px solid black; padding: 2px; width: 20px; margin: 5px auto;">Feet</div>		FILL: Asphalt. FILL: Dark brown to brown silt, sand and gravel, occasional silty clay seams, medium, moist.	90	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		SILTY CLAY: Brownish gray, trace fine gravel, stiff, moist.		0.0	
-5		SILTY CLAY: Same as above, stiff, moist.	98	0.0	
				0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B41

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98419957; W87.82247669

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/10/16
TOTAL DEPTH: 10 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Asphalt. FILL: Dark brown to brown silt, sand and gravel, medium, moist. SILTY CLAY: Brownish gray, trace fine to coarse gravel, stiff, moist. SILTY CLAY: Same as above, stiff, moist. SILTY CLAY: Same as above, stiff, moist.	80 95 100	0.0 0.0 0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses. 5- to 10-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.



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Geoprobe Boring Log Number: 2746-01-B42

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: S. Johnson
LOCATION: N41.98411407; W87.82175007

EQUIPMENT: Geoprobe 6620 DT
OPERATOR: RDNP
SAMPLING METHOD: Dual Tube
DATE DRILLED: 2/10/16
TOTAL DEPTH: 11 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	85	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
-		FILL: Dark brown to brown silt, sand and gravel, some brick fragments, medium, moist.			
-		SILTY CLAY: Brownish gray, little fine to coarse gravel, stiff, moist.	90	0.0	
-5		SILTY CLAY: Same as above, stiff, moist.			
-		SILTY CLAY: Same as above, stiff, moist.			
-10	SILTY CLAY: Same as above, stiff, moist.	100	0.0	6- to 11-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B43

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98401086; W87.82101677**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/4/16**
 TOTAL DEPTH: **14 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt, gravel, clay, silt, and sand.	84	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses. 7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Gray, moist, soft, with trace gravel.		0.0	
-5		CLAY: Same as above.	80	0.0	
-10		CLAY: Same as above.	63	0.0	



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Geoprobe Boring Log Number: 2746-01-B44

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.983913; W87.82029296

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 2/4/16
TOTAL DEPTH: 14 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
		FILL: Topsoil reworked with clay.	80	0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses. 7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Gray, moist, soft, with trace gravel.		0.0	
-5		CLAY: Same as above.	64	0.0	
-10		CLAY: Same as above.	58	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B45

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98378978; W87.81939611

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 2/4/16
TOTAL DEPTH: 14 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Asphalt. FILL: Sand. CLAY: Gray, moist, medium, with trace gravel. CLAY: Same as above. CLAY: Same as above.	100 62 100	0.0 0.0 0.0 0.0 0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses. 7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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Geoprobe Boring Log Number: 2746-01-B47

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98350009; W87.81770443

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 2/4/16
TOTAL DEPTH: 13 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Topsoil. SILTY CLAY: Brown and gray mottled, moist, stiff. SILTY CLAY: Same as above. CLAY: Gray, moist, medium, with trace gravel. CLAY: Same as above.	100 93 100	0.0 0.0 0.0 0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses. 7- to 13-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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Geoprobe Boring Log Number: 2746-01-B49

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98318291; W87.8163881**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/1/16**
 TOTAL DEPTH: **13 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	63	0.0	0 to 6.5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Gravel.		0.0	
		CLAY: Gray, soft, moist, with trace gravel.	100	0.0	6.5- to 13-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.		0.0	
-5			CLAY: Same as above.	80	0.0
-10		CLAY: Same as above.		0.0	



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Geoprobe Boring Log Number: 2746-01-B50

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98301959; W87.81568584**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/1/16**
 TOTAL DEPTH: **13 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Topsoil.	100	0.0	0 to 6.5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Gray, moist, soft, with trace gravel.		0.0	
-5		CLAY: Same as above.	100	0.0	6.5- to 13-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-10		CLAY: Same as above.	100	0.0	
				0.0	



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Geoprobe Boring Log Number: 2746-01-B51

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98285794; W87.81498288

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 2/1/16
TOTAL DEPTH: 14 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0 Feet -5 -10		FILL: Topsoil. CLAY: Gray, moist, soft, with trace gravel. CLAY: Same as above. CLAY: Same as above.	100 84 100	0.0 0.0 0.0 0.0 0.0	0 to 7-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses. 7- to 14-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.

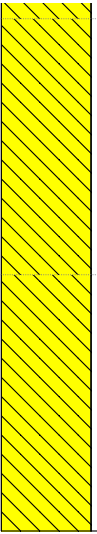


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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-01-B54 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
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-15		CLAY: Same as above.	60	0.0	14- to 20-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.	100	0.0	
-20					



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Geoprobe Boring Log Number: 2746-01-B55

PROJECT: FAI 90 (Interstate 90)
SITE LOCATION: Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL
SITE NAME: ISGS #2746-1, IDOT ROW,
 Contract 60Y39
JOB NUMBER: 1009341.0005.02
GEOLOGIST: J. Shuptar
LOCATION: N41.98254431; W87.81130863

EQUIPMENT: E & E Geoprobe 5410
OPERATOR: T. Pachowicz
SAMPLING METHOD: Macro Core
DATE DRILLED: 1/29/16
TOTAL DEPTH: 8 feet

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked topsoil, gravel, and clay.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-		CLAY: Gray, moist, soft, with trace gravel.		0.0	
-5		CLAY: Same as above.	100	0.0	



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01-B56

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-1, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.9825709; W87.81057537**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **1/29/16**
 TOTAL DEPTH: **8 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <div style="text-align: center;">0</div> <div style="text-align: center;">-5</div> </div> </div>		<p>FILL: Reworked topsoil, clay, silt, and sand.</p> <hr/> <p>CLAY: Brown and gray mottled, moist, soft, with trace gravel.</p> <hr/> <p>CLAY: Same as above.</p> <hr/> <p>CLAY: Gray, moist, soft, with trace gravel.</p>	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.



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Geoprobe Boring Log Number: 2746-01A-B01

PROJECT: **FAI 90 (Interstate 90)** EQUIPMENT: **E & E Geoprobe 5410**
 SITE LOCATION: **Chicago, Harwood Heights, and** OPERATOR: **T. Pachowicz**
Norwood Park, Cook County, IL SAMPLING METHOD: **Macro Core**
 SITE NAME: **ISGS #2746-1A, IDOT ROW-Interchange** DATE DRILLED: **2/9/16**
of I-90 and Cumberland Ave., Contract 60Y39 TOTAL DEPTH: **8 feet**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98471173; W87.83623331**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked clay and topsoil; with silt, sand, and gravel.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
				0.0	
-5		FILL: Same as above.	100	0.0	
				0.0	



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Geoprobe Boring Log Number: 2746-01A-B02

PROJECT: FAI 90 (Interstate 90)	EQUIPMENT: E & E Geoprobe 5410
SITE LOCATION: Chicago, Harwood Heights, and Norwood Park, Cook County, IL	OPERATOR: T. Pachowicz
SITE NAME: ISGS #2746-1A, IDOT ROW-Interchange of I-90 and Cumberland Ave., Contract 60Y39	SAMPLING METHOD: Macro Core
JOB NUMBER: 1009341.0005.02	DATE DRILLED: 2/9/16
GEOLOGIST: J. Shuptar	TOTAL DEPTH: 8 feet
LOCATION: N41.98475231; W87.83567999	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Reworked silt, topsoil, clay, and brick fragments.	100	0.0	0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
-5		FILL: Same as above.	100	0.0	
-5		SILTY CLAY: Brown, dry, stiff, with trace gravel.	100	0.0	



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Geoprobe Boring Log Number: 2746-01A-B03

PROJECT: FAI 90 (Interstate 90)	EQUIPMENT: E & E Geoprobe 5410
SITE LOCATION: Chicago, Harwood Heights, and Norwood Park, Cook County, IL	OPERATOR: T. Pachowicz
SITE NAME: ISGS #2746-1A, IDOT ROW-Interchange of I-90 and Cumberland Ave., Contract 60Y39	SAMPLING METHOD: Macro Core
JOB NUMBER: 1009341.0005.02	DATE DRILLED: 2/3/16
GEOLOGIST: J. Shuptar	TOTAL DEPTH: 8 feet
LOCATION: N41.98503465; W87.83498727	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Reworked clay and silt, with topsoil and some gravel.</p> <hr/> <p>FILL: Same as above.</p> <hr/> <p>SILTY CLAY: Brown, dry, stiff.</p>	<p>100</p> <hr/> <p>93</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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Geoprobe Boring Log Number: 2746-01A-B04

PROJECT: FAI 90 (Interstate 90)	EQUIPMENT: E & E Geoprobe 5410
SITE LOCATION: Chicago, Harwood Heights, and Norwood Park, Cook County, IL	OPERATOR: T. Pachowicz
SITE NAME: ISGS #2746-1A, IDOT ROW-Interchange of I-90 and Cumberland Ave., Contract 60Y39	SAMPLING METHOD: Macro Core
JOB NUMBER: 1009341.0005.02	DATE DRILLED: 2/3/16
GEOLOGIST: J. Shuptar	TOTAL DEPTH: 8 feet
LOCATION: N41.98552909; W87.83515313	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Reworked topsoil and clay, with silt and trace gravel.</p> <hr/> <p>FILL: Same as above.</p> <hr/> <p>SILTY CLAY: Brown and gray mottled, moist, stiff.</p>	<p>100</p> <hr/> <p>100</p>	<p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p> <hr/> <p>0.0</p>	<p>0 to 8-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.</p>



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01B-B01

PROJECT: FAI 90 (Interstate 90)	EQUIPMENT: Geoprobe 6620 DT
SITE LOCATION: Chicago, Harwood Heights, and Norwood Park, Cook County, IL	OPERATOR: RDNP
SITE NAME: ISGS #2746-1B, IDOT ROW-Intersection of I-90 and Canfield Ave., Contract 60Y39	SAMPLING METHOD: Macro-Core
JOB NUMBER: 1009341.0005.02	DATE DRILLED: 2/10/16
GEOLOGIST: S. Johnson	TOTAL DEPTH: 8 feet
LOCATION: N41.98435533; W87.82356060	

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">Feet</div> <div style="margin-left: 10px;"> <p>0</p> <p style="text-align: center;">-5</p> </div> </div>		<p>FILL: Asphalt.</p> <p>FILL: Dark brown to brown silt, sand and gravel, medium, moist.</p> <p>FILL: Brown, silty clay, trace fine gravel, reworked, stiff, moist.</p> <p>SILTY CLAY: Brownish gray, trace fine to coarse gravel, stiff, moist.</p> <p>SILTY CLAY: Same as above, stiff, moist.</p>	<p>75</p> <p>98</p>	<p>0.0</p> <p>0.0</p> <p>0.0</p> <p>0.0</p>	<p>0 to 8-foot depth interval soil sample and duplicate soil sample were collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.</p>



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-01B-B02

PROJECT: **FAI 90 (Interstate 90)** EQUIPMENT: **Geoprobe 6620 DT**
 SITE LOCATION: **Chicago, Harwood Heights, and** OPERATOR: **RDNP**
 Norwood Park, Cook County, IL SAMPLING METHOD: **Macro-Core**
 SITE NAME: **ISGS #2746-1B, IDOT ROW-Intersection** DATE DRILLED: **2/10/16**
 of I-90 and Canfield Ave., Contract 60Y39 TOTAL DEPTH: **3 feet**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **S. Johnson**
 LOCATION: **N41.98428492; W87.82319897**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Asphalt.	100	0.0	0 to 3-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP metals, pH, and percent solids analyses.
		FILL: Dark brown silt, sand and gravel, medium, moist.			
		FILL: Gravel and concrete fragments, dense, dry.			
		FILL: Brown, fine to coarse gravelly clay, little fine to coarse sand, very stiff, moist.			
		FILL: Dark brown silt, sand and gravel, some asphalt fragments, dense, moist. End of boring at 3 feet. 1st and 2nd attempt refusal at 6 inches, and 3rd attempt refusal at 3 feet.			
-5					



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Illinois Department of Transportation

Geoprobe Boring Log Number: 2746-02-B01

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-2, Chicago Transit
 Authority Tracks, Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98272773; W87.81446637**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/1/16**
 TOTAL DEPTH: **18 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Topsoil.	100	0.0	0 to 6-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Gray, moist, soft, with trace gravel.		0.0	
-5		CLAY: Same as above.	100	0.0	6- to 12-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		CLAY: Same as above.	100	0.0	

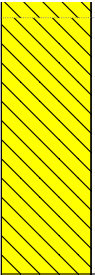



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DEPTH	GRAPHIC LOG	Geoprobe Boring Log Number: 2746-02-B01 SOIL DESCRIPTION (CONT.)	REC. (%)	PID METER UNITS	SOIL INTERVAL COLLECTED FOR LABORATORY ANALYSIS
-------	-------------	--	----------	-----------------	---

-15		CLAY: Same as above.	100	0.0	 12- to 18-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		NO RECOVERY	NR	NR	



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Geoprobe Boring Log Number: 2746-61-B01

PROJECT: **FAI 90 (Interstate 90)**
 SITE LOCATION: **Chicago, Harwood Heights, and
 Norwood Park, Cook County, IL**
 SITE NAME: **ISGS #2746-61, IDOT ROW,
 Contract 60Y39**
 JOB NUMBER: **1009341.0005.02**
 GEOLOGIST: **J. Shuptar**
 LOCATION: **N41.98434213; W87.82319184**

EQUIPMENT: **E & E Geoprobe 5410**
 OPERATOR: **T. Pachowicz**
 SAMPLING METHOD: **Macro Core**
 DATE DRILLED: **2/4/16**
 TOTAL DEPTH: **5 feet**

∇ Water level during drilling, if encountered

Boring continuously sampled using a 2-inch diameter sampler, 4 feet in length.

Soil headspace readings conducted at 2-foot intervals.

DEPTH	GRAPHIC LOG	SOIL DESCRIPTION	REC. (%)	PID Meter Units	SOIL INTERVAL COLLECTED FOR LABORATORY CHEMICAL ANALYSIS
0		FILL: Concrete.	66	0.0	0 to 5-foot depth interval soil sample collected for VOC, SVOC, total TAL metals, TCLP/SPLP TAL metals, pH, and percent solids analyses.
		FILL: Brown, poorly sorted, very fine to coarse sand.			
-5					



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C

Summary of Analytical Results

Analytical Data Summary

FB #176-01; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #0:

Key to Data Tables

MAC = Maximum Allowable Concentration of Chemical Constituent in
Uncontaminated Soil Used as Fill Material At Regulated Fill Operations

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

MSA = Metropolitan Statistical Area

TACO = Tiered Approach to Corrective Action Objectives

TCLP = Toxicity Characteristic Leaching Procedure.

SCGIER = Soil Component of the Groundwater Ingestion Exposure Route

SPLP = Synthetic Precipitation Leaching Procedure.

ND = Not detected.

NA = Not analyzed.

J = Estimated value.

U = Analyte was analyzed for but not detected.

R = Rejected.

Criteria Qualifiers and Shading

= pH is less than 6.25 or greater than 9.0 standard units.

† = Concentration exceeds the most stringent MAC.

m = Concentration exceeds the MAC for an MSA.


* = Concentration exceeds the MAC for Chicago corporate limits.

c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.


L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.

W1 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater.

W1,2 = Concentration exceeds the Tier 1 RO for the Groundwater Component of the Groundwater Ingestion Route for Class 1 and Class 2 groundwater.

 = Concentration exceeds the most stringent MAC, but is below the MAC for an MSA.

 = Concentration exceeds the most stringent MAC and the MAC for Chicago corporate limits.

 = Concentration exceeds applicable comparison criteria.

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B01		2746-01-B02		MACs			TACO				
BORING	2746-01-B01 (0-5)	2746-01-B01 (5-10)	2746-01-B02 (0-8)	2746-01-B02 (8-15)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
SAMPLE	Soil	Soil	Soil	Soil								
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-5	5-10	0-8	8-15								
pH	7.79	7.73	8.59	7.64								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	0.023	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	ND U	ND U	ND U	0.014 J	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	ND U	ND U	ND U	0.018 J	88	--	--	88	17,000	--	0.0015	
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	ND U	ND U	Phenanthrene	0.054	--	--	--	--	--	--	--	
Pyrene	ND U	ND U	ND U	0.02 J	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	3.7	6.4	3.7	9	11.3	13	--	13	61	--	0.05	
Barium	72	83	23	46	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.45	0.63	0.36	0.66	22	--	--	160	410	--	0.004	
Boron	3.5	9.9	4	15	40	--	--	16,000	41,000	--	2	
Cadmium	0.053 J	0.16	0.066 J	ND U	5.2	--	--	78	200	--	0.005	
Calcium	1,500	62,000	15,000	77,000	--	--	--	--	--	--	--	
Chromium	15	17	11	18	21	--	--	230	690	--	0.1	
Cobalt	9.4	22 †	7.2	15	20	--	--	4,700	12,000	--	1	
Copper	11	26	21	25	2,900	--	--	2,900	8,200	--	0.65	
Iron	16,000 †m	21,000 †m	12,000	19,000 †m	15,000	15900	--	--	--	--	5	
Lead	14	13	13	14	107	--	--	400	700	--	0.0075	
Magnesium	2,400	41,000	10,000	34,000	325,000	--	--	--	730,000	--	--	
Manganese	300	1,800 †mr	400	450	630	636	--	1,600	4,100	--	0.15	
Mercury	0.027	0.024	0.017	0.025	0.89	--	--	10	0.1	--	0.002	
Nickel	13	41	17	34	100	--	--	1,600	4,100	--	0.1	
Potassium	1,000	2,300	760	3,000	--	--	--	--	--	--	--	
Selenium	ND U	0.35 J	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	1,600	1,700	1,100	450	--	--	--	--	--	--	--	
Thallium	ND U	0.3 J	ND U	0.49 J	2.6	--	--	6.3	160	--	0.002	
Vanadium	23	24	17	20	550	--	--	550	1,400	--	0.049	
Zinc	52	74	64	51	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.2 J	0.18 J	0.27 J	0.58	--	--	--	--	--	2	--	
Boron	0.73	0.59	0.086 J	0.57	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.018 J	ND U	ND U	0.015 J	--	--	--	--	--	1	--	
Iron	0.24 J	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	4 L	0.51 L	1.3 L	2.2 L	--	--	--	--	--	0.15	--	
Nickel	0.012 J	ND U	0.011 J	0.036	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	3.1 L	1.4 L	1.1 L	0.079	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria						
	2746-01-B03			2746-01-B04		MACs			TACO			
BORING												
SAMPLE	2746-01-B03 (0-8)	2746-01-B03 (8-12)	2746-01-G03	2746-01-B04 (0-8)	2746-01-B04 (8-17)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
MATRIX	Soil	Soil	Water	Soil	Soil							
DEPTH (feet)	0-8	8-12	9-10	0-8	8-17							
pH	8.07	7.88	NA	7.63	7.98							
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	0.021 J	ND U	ND U	0.0097 J	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.012 J	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	0.069	ND U	ND U	0.026 J	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.19	ND U	ND U	0.072	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo[a]pyrene	0.16 †	ND U	ND U	0.074	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.25	ND U	ND U	0.14	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	0.074	ND U	ND U	0.038	ND U	--	--	--	--	--	--	--
Benzo[k]fluoranthene	0.086	ND U	ND U	0.061	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	0.0033 J	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.2	ND U	ND U	0.089	0.013 J	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	0.026 J	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.45	ND U	ND U	0.17	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	0.036	ND U	ND U	0.012 J	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	0.073	ND U	ND U	0.041	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.013 J	ND U	ND U	0.0059 J	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.32	0.009 J	ND U	0.12	0.013 J	--	--	--	--	--	--	--
Pyrene	0.32	ND U	ND U	0.2	0.0084 J	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U		ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	4	5.4	0.0073 J	4	6.9	11.3	13	--	13	61	--	0.05
Barium	36	27	0.067	71	41	1,500	--	--	5,500	14,000	--	2
Beryllium	0.37	0.46	ND U	0.44	0.51	22	--	--	160	410	--	0.004
Boron	4.3	11	0.17	5.6	11	40	--	--	16,000	41,000	--	2
Cadmium	0.062 J	0.071 J	0.00038 J	0.32	0.044 J	5.2	--	--	78	200	--	0.005
Calcium	40,000	79,000	460	20,000	70,000	--	--	--	--	--	--	--
Chromium	11	14	0.0082	17	14	21	--	--	230	690	--	0.1
Cobalt	5.3	9.7	0.04	8.2	12	20	--	--	4,700	12,000	--	1
Copper	18	21	0.022 J	34	21	2,900	--	--	2,900	8,200	--	0.65
Iron	12,000	14,000	18 W1,2	16,000 †m	15,000	15,000	15900	--	--	--	--	5
Lead	66	11	0.0067	230 †	12	107	--	--	400	700	--	0.0075
Magnesium	19,000	37,000	190	13,000	31,000	325,000	--	--	--	730,000	--	--
Manganese	360	410	1.7 J W1	310	360	630	636	--	1,600	4,100	--	0.15
Mercury	0.034	0.013 J	ND U	0.019	0.019	0.89	--	--	10	0.1	--	0.002
Nickel	13	23	0.047	20	28	100	--	--	1,600	4,100	--	0.1
Potassium	750	2,100	5.2	860	2,100	--	--	--	--	--	--	--
Selenium	ND U	0.41 J	0.0014 J	0.45 J	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	510	460	900	1,000	600	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	0.41 J	2.6	--	--	6.3	160	--	0.002
Vanadium	20	17	0.0071	23	17	550	--	--	550	1,400	--	0.049
Zinc	53	47	0.088	110	51	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)												
Barium	0.35 J	0.46 J	NA	0.25 J	0.49 J	--	--	--	--	--	2	--
Boron	0.59	0.095 J	NA	0.12 J	0.67	--	--	--	--	--	2	--
Cadmium	ND U	ND U	NA	0.0038 J	ND U	--	--	--	--	--	0.005	--
Cobalt	ND U	0.022 J	NA	0.027	0.034	--	--	--	--	--	1	--
Iron	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	NA	0.11 L	0.0077 L	--	--	--	--	--	0.0075	--
Manganese	2.8 L	2.5 L	NA	5.4 L	2 L	--	--	--	--	--	0.15	--
Nickel	0.016 J	0.039	NA	0.031	0.072	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	ND U	ND U	NA	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	0.0091 L	ND U	--	--	--	--	--	0.0075	--
Manganese	0.31 L	0.057	NA	0.011 J	0.11	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria						
	2746-01-B05				2746-01-B06		MACs			TACO			
BORING	2746-01-B05 (0-8)	2746-01-B05 (8-16)	2746-01-B05 (16-24)	2746-01-B05 (24-30)	2746-01-B06 (0-8)	2746-01-B06 (8-16)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	8-16	16-24	24-30	0-8	8-16							
pH	7.89	8.06	7.79	8.16	8.61	7.83							
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	0.028	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	0.038	0.063	0.18	ND U	0.02 J	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	0.0072 J	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	0.0067 J	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.0066 J	ND U	ND U	ND U	0.034 J	ND U	0.9	1.8	1.1	1.8	170	--	0.0013
Benzo[a]pyrene	ND U	ND U	ND U	ND U	0.049	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.0093 J	ND U	ND U	ND U	0.11	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	ND U	ND U	0.018 J	ND U	0.032 J	0.018 J	--	--	--	--	--	--	--
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	0.041	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	ND U	0.017 J	0.019 J	ND U	0.06	0.026 J	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	0.0079 J	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.014 J	ND U	0.008 J	ND U	0.096	0.0082 J	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	0.007 J	ND U	ND U	0.0075 J	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	0.038 J	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.0061 J	ND U	0.024 J	0.07	ND U	0.0087 J	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.015 J	0.039	0.065	0.13	0.042	0.062	--	--	--	--	--	--	--
Pyrene	0.011 J	0.013 J	0.019 J	0.026 J	0.083	0.026 J	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	2.9	5.9	5.4	8.5	4.9	8.3	11.3	13	--	13	61	--	0.05
Barium	34	27	48	31	56	29	1,500	--	--	5,500	14,000	--	2
Beryllium	0.36	0.44	0.67	0.61	0.56	0.52	22	--	--	160	410	--	0.004
Boron	5.7	8.7	14	14	3.9	11	40	--	--	16,000	41,000	--	2
Cadmium	0.13	0.071 J	0.056 J	0.034 J	0.081 J	ND U	5.2	--	--	78	200	--	0.005
Calcium	31,000	78,000	63,000	57,000	21,000	76,000	--	--	--	--	--	--	--
Chromium	9.3	11	18	15	16	12	21	--	--	230	690	--	0.1
Cobalt	4.7	10	13	13	9.7	10	20	--	--	4,700	12,000	--	1
Copper	15	21	22	30	19	26	2,900	--	--	2,900	8,200	--	0.65
Iron	9,300	14,000	18,000 †m	18,000 †m	16,000 †m	16,000 †m	15,000	15900	--	--	--	--	5
Lead	12	9.9	12	15	17	12	107	--	--	400	700	--	0.0075
Magnesium	18,000	33,000	23,000	25,000	14,000	32,000	325,000	--	--	--	730,000	--	--
Manganese	210	400	340	330	430	380	630	636	--	1,600	4,100	--	0.15
Mercury	0.022	0.0097 J	0.025	0.026	0.014 J	0.018	0.89	--	--	10	0.1	--	0.002
Nickel	12	25	34	35	22	27	100	--	--	1,600	4,100	--	0.1
Potassium	650	1,500	2,600	2,300	930	1,900	--	--	--	--	--	--	--
Selenium	0.44 J	0.55	ND U	0.58	0.5 J	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	1,600	620	240	180	1,000	410	--	--	--	--	--	--	--
Thallium	ND U	0.39 J	0.47 J	0.53 J	ND U	ND U	2.6	--	--	6.3	160	--	0.002
Vanadium	17	14	22	16	24	17	550	--	--	550	1,400	--	0.049
Zinc	62	60	63	67	65	60	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)													
Barium	0.4 J	0.42 J	0.59	0.5	0.42 J	0.45 J	--	--	--	--	--	2	--
Boron	0.11 J	0.055 J	0.5	0.51	0.45 J	0.51	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	0.016 J	0.05	0.014 J	0.018 J	ND U	0.019 J	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	3.2 L	2.3 L	1.8 L	1.9 L	0.68 L	1.9 L	--	--	--	--	--	0.15	--
Nickel	ND U	0.067	0.04	0.046	ND U	0.045	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.28 L	0.15	0.35 L	0.42 L	0.079	0.1	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria						
	2746-01-B07					MACs			TACO			
BORING	2746-01-B07					Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	2746-01-B07 (0-8)	2746-01-B07 (0-8)D	2746-01-B07 (8-16)	2746-01-B07 (16-24)	2746-01-B07 (24-30)							
MATRIX	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	0-8	8-16	16-24	24-30							
pH	8.5	8.56	7.79	8.06	8.24							
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	-- 6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	-- 0.005	
Trichloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	-- 0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	ND U	ND U	0.074	0.047	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	-- 0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	
Anthracene	0.01 J	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	-- 2.1	
Benzo[a]anthracene	0.049	0.033 J	0.0051 J	ND U	ND U	0.9	1.8	1.1	1.8	170	-- 0.00013	
Benzo[a]pyrene	0.06	0.044	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	-- 0.0002	
Benzo[b]fluoranthene	0.13	0.084	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	-- 0.00018	
Benzo[g,h,i]perylene	0.041	0.029 J	ND U	0.017 J	0.017 J	--	--	--	--	--	--	
Benzo[k]fluoranthene	0.046	0.036 J	ND U	ND U	ND U	9	--	--	9	1,700	-- 0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	-- 0.006	
Butyl benzyl phthalate	0.093 J	ND U	ND U	ND U	ND U	930	--	--	930	930	-- 1.4	
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	
Chrysene	0.068	0.047	ND U	ND U	0.023 J	88	--	--	88	17,000	-- 0.0015	
Dibenz(a,h)anthracene	0.01 J	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	-- 0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	-- 0.7	
Fluoranthene	0.1	0.069	ND U	ND U	0.0071 J	3,100	--	--	3,100	82,000	-- 0.28	
Fluorene	ND U	ND U	ND U	0.0063 J	0.0065 J	560	--	--	3,100	82,000	-- 0.28	
Indeno[1,2,3-cd]pyrene	ND U	0.024 J	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	-- 0.00043	
Naphthalene	ND U	ND U	ND U	0.021 J	0.019 J	1.8	--	--	170	1.8	-- 0.14	
Phenanthrene	0.042	0.033 J	0.0072 J	0.06	0.07	--	--	--	--	--	--	
Pyrene	0.099	0.071	ND U	0.023 J	0.026 J	2,300	--	--	2,300	61,000	-- 0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	-- 0.006	
Arsenic	4	4.6	4.7	6.1	5.9	11.3	13	--	13	61	-- 0.05	
Barium	60	44	15	47	45	1,500	--	--	5,500	14,000	-- 2	
Beryllium	0.56	0.49	0.34	0.66	0.63	22	--	--	160	410	-- 0.004	
Boron	6.5	7.4	6.5	14	14	40	--	--	16,000	41,000	-- 2	
Cadmium	0.16	0.21	ND U	ND U	ND U	5.2	--	--	78	200	-- 0.005	
Calcium	57,000	61,000	120,000	67,000	65,000	--	--	--	--	--	--	
Chromium	15	15	7.5	18	17	21	--	--	230	690	-- 0.1	
Cobalt	8.1	8.4	6.6	13	12	20	--	--	4,700	12,000	-- 1	
Copper	21	28	19	24	24	2,900	--	--	2,900	8,200	-- 0.65	
Iron	14,000	13,000	12,000	18,000 †m	18,000 †m	15,000	15900	--	--	--	-- 5	
Lead	68	71	8.3	12	12	107	--	--	400	700	-- 0.0075	
Magnesium	25,000	26,000	51,000	23,000	23,000	325,000	--	--	--	730,000	--	
Manganese	290	310	630	310	320	630	636	--	1,600	4,100	-- 0.15	
Mercury	0.02	0.026	0.016 J	0.022	0.022	0.89	--	--	10	0.1	-- 0.002	
Nickel	22	20	15	35	33	100	--	--	1,600	4,100	-- 0.1	
Potassium	1,400	1,300	1,000	2,600	2,500	--	--	--	--	--	--	
Selenium	ND U	0.43 J	0.57	ND U	0.39 J	1.3	--	--	390	1,000	-- 0.05	
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	-- 0.05	
Sodium	1,100	910	290	190	190	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	-- 0.002	
Vanadium	22	20	13	22	21	550	--	--	550	1,400	-- 0.049	
Zinc	75	90	33	59	55	5,100	--	--	23,000	61,000	-- 5	
TCLP Metals (mg/L)												
Barium	0.45 J	0.45 J	0.33 J	0.61	0.53	--	--	--	--	--	2 --	
Boron	0.48 J	0.43 J	0.5	0.49 J	0.47 J	--	--	--	--	--	2 --	
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005 --	
Cobalt	ND U	ND U	0.014 J	0.013 J	0.017 J	--	--	--	--	--	1 --	
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5 --	
Lead	ND U	0.0082 L	ND U	ND U	ND U	--	--	--	--	--	0.0075 --	
Manganese	0.18 J L	0.72 J L	1.9 L	1.8 L	1.8 L	--	--	--	--	--	0.15 --	
Nickel	ND U	ND U	0.028	0.035	0.041	--	--	--	--	--	0.1 --	
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05 --	
Zinc	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5 --	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	2 --	
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005 --	
Lead	NA	0.017 L	NA	NA	NA	--	--	--	--	--	0.0075 --	
Manganese	0.52 J L	0.15 J	0.044	0.32 L	0.48 L	--	--	--	--	--	0.15 --	
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	5 --	

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria												
	2746-01-B08		2746-01-B09				MACs			TACO									
BORING	2746-01-B08 (0-7)		2746-01-B08 (7-14)		2746-01-B09 (0-8)		2746-01-B09 (8-16)		2746-01-B09 (16-24)		2746-01-B09 (24-30)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-7	7-14	0-8	8-16	16-24	24-30													
pH	7.45	7.91	7.96	7.88	7.86	7.67													
VOCs (soil: mg/kg, water: mg/L)																			
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	0.017	0.029	0.053										25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)																			
2-Methylnaphthalene	ND U	ND U	0.045										--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.011 J										570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U										--	--	--	--	--	--	--
Anthracene	ND U	ND U	0.025 J										12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.02 J	ND U	0.064										0.9	1.8	1.1	1.8	170	--	0.0013
Benzo[a]pyrene	0.014 J	ND U	0.05										0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.035 J	ND U	0.12										0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	ND U	ND U	0.025 J										0.17 J	--	--	--	--	--	--
Benzo[k]fluoranthene	0.015 J	ND U	0.04										9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U										46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U										930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U										0.6	--	--	32	6,200	--	--
Chrysene	0.023 J	ND U	0.081										88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	ND U	ND U	ND U										0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U										--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U										2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.042	ND U	0.14										3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	0.015 J										560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	ND U	0.029 J										0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	ND U	ND U	0.03 J										1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.029 J	0.006 J	0.13										--	--	--	--	--	--	--
Pyrene	0.045	0.0076 J	0.16										2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)																			
Antimony	ND U	ND U	ND U										5	--	--	31	82	--	0.006
Arsenic	4.4	3.1	4.6										11.3	13	--	13	61	--	0.05
Barium	100	53	86										1,500	--	--	5,500	14,000	--	2
Beryllium	0.85	0.57	0.68										22	--	--	160	410	--	0.004
Boron	4.4	8.1	6.5										40	--	--	16,000	41,000	--	2
Cadmium	ND U	0.073 J	0.12										5.2	--	--	78	200	--	0.005
Calcium	8,200	64,000	21,000										--	--	--	--	--	--	--
Chromium	21	16	17										21	--	--	230	690	--	0.1
Cobalt	13	12	11										20	--	--	4,700	12,000	--	1
Copper	17	20	20										2,900	--	--	2,900	8,200	--	0.65
Iron	16,000 tm	15,000	16,000 tm										15,000	15900	--	--	--	--	5
Lead	16	9.7	31										107	--	--	400	700	--	0.0075
Magnesium	7,200	25,000	13,000										325,000	--	--	--	730,000	--	--
Manganese	230	340	290										630	636	--	1,600	4,100	--	0.15
Mercury	0.034	0.016 J	0.029										0.89	--	--	10	0.1	--	0.002
Nickel	33	30	31										35	--	--	1,600	4,100	--	0.1
Potassium	1,500	1,800	1,600										--	--	--	--	--	--	--
Selenium	ND U	0.65	0.4 J										1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U										4.4	--	--	390	1,000	--	0.05
Sodium	800	1,200	330										--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U										2.6	--	--	6.3	160	--	0.002
Vanadium	26	22	26										550	--	--	550	1,400	--	0.049
Zinc	76	68	79										5,100	--	--	23,000	61,000	--	5
TCPL Metals (mg/L)																			
Barium	0.51	0.33 J	0.73										--	--	--	--	--	--	2
Boron	0.47 J	0.44 J	0.52										--	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U										--	--	--	--	--	--	0.005
Cobalt	0.03	0.018 J	0.03										--	--	--	--	--	--	1
Iron	ND U	ND U	ND U										--	--	--	--	--	--	5
Lead	ND U	ND U	0.0088 L										--	--	--	--	--	--	0.0075
Manganese	6.7 L	2.3 L	8.5 L										--	--	--	--	--	--	0.15
Nickel	0.029	0.029	0.019 J										--	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U										--	--	--	--	--	--	0.05
Zinc	ND U	ND U	ND U										--	--	--	--	--	--	5
SPLP Metals (mg/L)																			
Boron	NA	NA	NA										--	--	--	--	--	--	2
Cadmium	NA	NA	NA										--	--	--	--	--	--	0.005
Lead	NA	NA	0.067 L										--	--	--	--	--	--	0.0075
Manganese	0.1	0.42 L	1.3 L										--	--	--	--	--	--	0.15
Zinc	NA	NA	NA										--	--	--	--	--	--	5

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria											
	2746-01-B10		2746-01-B11			MACs			TACO								
BORING	2746-01-B10 (0-6)		2746-01-B10 (6-11)		2746-01-B11 (0-7)	2746-01-B11 (7-14)		2746-01-B11 (14-20)			Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-6	6-11	0-7	7-14	14-20												
pH	8.14	8.19	8.16	7.92	8.18												
VOCs (soil: mg/kg, water: mg/L)																	
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	--	--	--	--	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	--	--	--	--	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	--	--	--	--	--	0.005
SVOCs (soil: mg/kg, water: mg/L)																	
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	0.0073 J	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	--	--	--	--	--	0.42
Acenaphthylene	0.009 J	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	0.031 J	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	--	--	--	--	--	2.1
Benzo[a]anthracene	0.2	0.0061 J	0.0061 J	0.0061 J	0.0061 J	0.9	1.8	1.1	1.8	170	--	--	--	--	--	--	0.00013
Benzo[a]pyrene	0.19 †	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	--	--	--	--	--	0.0002
Benzo[b]fluoranthene	0.35	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	--	--	--	--	--	0.00018
Benzo[g,h,i]perylene	0.17	ND U	ND U	0.012 J	ND U	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	0.15	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	--	--	--	--	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	--	--	--	--	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	--	--	--	--	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	--	--	--	--	--
Chrysene	0.25	ND U	ND U	0.013 J	0.014 J	88	--	--	88	17,000	--	--	--	--	--	--	0.0015
Dibenz(a,h)anthracene	0.058	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	--	--	--	--	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	0.085 J	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	--	--	--	--	--	0.7
Fluoranthene	0.22	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	--	--	--	--	--	0.28
Fluorene	0.0082 J	ND U	ND U	0.0066 J	ND U	560	--	--	3,100	82,000	--	--	--	--	--	--	0.28
Indeno[1,2,3-cd]pyrene	0.15	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	--	--	--	--	--	0.00043
Naphthalene	0.014 J	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	--	--	--	--	--	0.14
Phenanthrene	0.15	0.0098 J	ND U	0.037	0.047	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	0.37	0.007 J	ND U	0.013 J	0.012 J	2,300	--	--	2,300	61,000	--	--	--	--	--	--	0.21
Inorganics (soil: mg/kg, water: mg/L)																	
Antimony	ND U	0.29 J	ND U	ND U	ND U	5	--	--	31	82	--	--	--	--	--	--	0.006
Arsenic	11	5.4	6.8	4.9	5.7	11.3	13	--	13	61	--	--	--	--	--	--	0.05
Barium	120	4.6	43	36	46	1,500	--	--	5,500	14,000	--	--	--	--	--	--	2
Beryllium	0.88	0.22	0.61	0.54	0.66	22	--	--	160	410	--	--	--	--	--	--	0.004
Boron	9.3	4.7	6.4	11	12	40	--	--	16,000	41,000	--	--	--	--	--	--	2
Cadmium	2.7	0.036 J	0.083 J	ND U	ND U	5.2	--	--	78	200	--	--	--	--	--	--	0.005
Calcium	16,000	100,000	25,000	73,000	73,000	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	28 †	4.9	12	15	17	21	--	--	230	690	--	--	--	--	--	--	0.1
Cobalt	11	5.4	6.8	10	13	20	--	--	4,700	12,000	--	--	--	--	--	--	1
Copper	7,200 †	13	17	18	22	2,900	--	--	2,900	8,200	--	--	--	--	--	--	0.65
Iron	28,000 †	8,900	17,000 †	16,000 †	19,000 †	15,000	15900	--	--	--	--	--	--	--	--	--	5
Lead	330 †	7.6	20	11	12	107	--	--	400	700	--	--	--	--	--	--	0.0075
Magnesium	9,300	38,000	16,000	25,000	24,000	325,000	--	--	--	730,000	--	--	--	--	--	--	--
Manganese	330	430	230	320	320	630	636	--	1,600	4,100	--	--	--	--	--	--	0.15
Mercury	0.053	ND U	0.029	ND U	0.024	0.89	--	--	10	0.1	--	--	--	--	--	--	0.002
Nickel	39	13	18	27	34	100	--	--	1,600	4,100	--	--	--	--	--	--	0.1
Potassium	1,700	660	990	2,300	2,600	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	2.1 †	0.5 J	0.39 J	0.28 J	ND U	1.3	--	--	390	1,000	--	--	--	--	--	--	0.05
Silver	0.56	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	--	--	--	--	--	0.05
Sodium	150	150	140	220	180	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	--	--	--	--	--	0.002
Vanadium	23	10	22	17	19	550	--	--	550	1,400	--	--	--	--	--	--	0.049
Zinc	5,300 †	43	63	45	57	5,100	--	--	23,000	61,000	--	--	--	--	--	--	5
TCLP Metals (mg/L)																	
Barium	0.7	0.073 J	0.36 J	0.35 J	0.6	--	--	--	--	--	--	--	--	--	--	--	2
Boron	0.081 J	0.63	0.081 J	ND U	0.077 J	--	--	--	--	--	--	--	--	--	--	--	2
Cadmium	0.013 L	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	0.005
Cobalt	ND U	0.034	ND U	0.022 J	0.014 J	--	--	--	--	--	--	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	5
Lead	0.056 L	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	0.0075
Manganese	1.4 L	1.9 L	1.5 L	2.4 L	2.3 L	--	--	--	--	--	--	--	--	--	--	--	0.15
Nickel	0.026	0.046	ND U	0.034	0.036	--	--	--	--	--	--	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	0.05
Zinc	5.5 L	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	--	5
SPLP Metals (mg/L)																	
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--	--	2
Cadmium	ND U	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--	--	0.005
Lead	0.064 L	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--	--	0.0075
Manganese	0.23 L	ND U	0.012 J	0.1	0.28 L	--	--	--	--	--	--	--	--	--	--	--	0.15
Zinc	3	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--	--	5

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria						
	2746-01-B12				2746-01-B13		MACs			TACO			
BORING	2746-01-B12 (0-8)	2746-01-B12 (8-16)	2746-01-B12 (16-24)	2746-01-B12 (24-30)	2746-01-B13 (0-8)	2746-01-B13 (8-15)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	8-16	16-24	24-30	0-8	8-15							
pH	8.06	7.95	8.29	8.48	8.51	8.02							
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	0.02 J	0.026 J	0.021 J	ND U	0.048	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	ND U	ND U	ND U	0.0056 J	ND U	ND U	0.9	1.8	1.1	1.8	170	--	0.0013
Benzo[a]pyrene	ND U	ND U	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	ND U	ND U	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	ND U	ND U	ND U	0.013 J	ND U	0.014 J	--	--	--	--	--	--	--
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.0099 J	ND U	ND U	0.017 J	ND U	0.019 J	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	ND U	ND U	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	ND U	ND U	0.0098 J	0.017 J	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	ND U	0.054	0.025 J	0.065	ND U	0.067	--	--	--	--	--	--	--
Pyrene	0.01 J	0.02 J	0.011 J	0.016 J	ND U	0.018 J	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	2.4	4	7.3	8.7	2.6	7.9	11.3	13	--	13	61	--	0.05
Barium	31	5.8	45	24	18 j	39	1,500	--	--	5,500	14,000	--	2
Beryllium	0.53	0.19 J	0.63	0.51	0.35	0.59	22	--	--	160	410	--	0.004
Boron	8.6	4.9	13	11	5.6 J	11	40	--	--	16,000	41,000	--	2
Cadmium	0.16	0.078 J	ND U	ND U	0.056 J	ND U	5.2	--	--	78	200	--	0.005
Calcium	69,000	93,000	70,000	83,000	50,000	61,000	--	--	--	--	--	--	--
Chromium	13	5.4	17	12	11	15	21	--	--	230	690	--	0.1
Cobalt	7.9	5.9	13	11	3.7	15	20	--	--	4,700	12,000	--	1
Copper	18	12	27	25	15	28	2,900	--	--	2,900	8,200	--	0.65
Iron	16,000 tm	7,900	18,000 tm	16,000 tm	11,000	19,000 tm	15,000	15900	--	--	--	--	5
Lead	18	6.4	13	13	27 J	15	107	--	--	400	700	--	0.0075
Magnesium	27,000	44,000	27,000	35,000	25,000 J	26,000	325,000	--	--	--	730,000	--	--
Manganese	380	460	340	450	230 J	370	630	636	--	1,600	4,100	--	0.15
Mercury	0.035	0.01 J	0.027	0.04	0.012 J	0.017 J	0.89	--	--	10	0.1	--	0.002
Nickel	21	13	33	29	11	42	100	--	--	1,600	4,100	--	0.1
Potassium	1,900	660	2,600	2,000	970 J	2,300	--	--	--	--	--	--	--
Selenium	0.31 J	0.28 J	ND U	0.34 J	ND U	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	160	220	210	190	310	170	--	--	--	--	--	--	--
Thallium	ND U	ND U	0.47 J	0.5 J	ND U	0.71	2.6	--	--	6.3	160	--	0.002
Vanadium	18	9.1	19	15	15	18	550	--	--	550	1,400	--	0.049
Zinc	55	50	56	61	54	50	5,100	--	--	23,000	61,000	--	5
TCPL Metals (mg/L)													
Barium	0.28 J	0.12 J	0.62	0.48 J	0.19 J	0.57	--	--	--	--	--	2	--
Boron	0.73	0.69	0.66	0.77	0.63	0.68	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	ND U	0.041	0.015 J	0.017 J	ND U	0.013 J	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	1.9 L	1.6 L	2.5 L	1.9 L	1.3 L	2 L	--	--	--	--	--	0.15	--
Nickel	0.012 J	0.039	0.037	0.041	ND U	0.036	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.061	0.022 J	0.64 L	0.54 L	0.14	0.18 L	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria						
	2746-01-B14			2746-01-B15			MACs			TACO			
BORING	2746-01-B14 (0-8)	2746-01-B14 (8-16)	2746-01-B14 (16-24)	2746-01-B14 (24-30)	2746-01-B15 (0-8)	2746-01-B15 (8-17)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	8-16	16-24	24-30	0-8	8-17							
pH	9.17 #	8.09	8.32	8.18	8.98	8.28							
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	0.098	0.16	0.27	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	0.056	ND U	ND U	0.01 J	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.052	ND U	ND U	0.009 J	ND U	ND U	--	--	--	--	--	--	--
Anthracene	0.42	ND U	ND U	ND U	0.0079 J	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.96 †	ND U	ND U	ND U	0.028 J	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo[a]pyrene	0.87 †	ND U	ND U	ND U	0.025 J	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	1.2 †	ND U	ND U	ND U	0.039	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	0.34	0.018 J	0.023 J	0.014 J	0.017 J	0.014 J	--	--	--	--	--	--	--
Benzo[k]fluoranthene	0.52	ND U	ND U	ND U	0.012 J	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	0.25	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.98	0.022 J	0.028 J	0.034 J	0.035 J	0.023 J	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	0.12 †	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	0.099 J	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	2.3	ND U	0.0078 J	ND U	0.064	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	0.22	0.0077 J	0.0084 J	0.0081 J	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	0.39	ND U	ND U	ND U	0.014 J	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.024 J	0.031 J	0.053	0.078	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	2	0.083	0.092	0.16	0.041	0.059	--	--	--	--	--	--	--
Pyrene	1.7	0.037 J	0.044	0.022 J	0.047	0.032 J	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	4.7	11	6.4	8	5.5	6.4	11.3	13	--	13	61	--	0.05
Barium	21	40	43	34	39	24	1,500	--	--	5,500	14,000	--	2
Beryllium	0.23	0.59	0.63	0.65	0.53	0.4	22	--	--	160	410	--	0.004
Boron	4.5	13	15	16	9.2	8.9	40	--	--	16,000	41,000	--	2
Cadmium	0.071 J	ND U	ND U	ND U	0.11	ND U	5.2	--	--	78	200	--	0.005
Calcium	110,000	70,000	64,000	46,000	45,000	71,000	--	--	--	--	--	--	--
Chromium	8	16	18	17	14	11	21	--	--	230	690	--	0.1
Cobalt	4.1	14	13	15	10	10	20	--	--	4,700	12,000	--	1
Copper	14	24	23	29	21	21	2,900	--	--	2,900	8,200	--	0.65
Iron	12,000	16,000 †m	16,000 †m	17,000 †m	14,000	13,000	15,000	15900	--	--	--	--	5
Lead	10	12	14	16	21	11	107	--	--	400	700	--	0.0075
Magnesium	65,000	28,000	23,000	21,000	21,000	31,000	325,000	--	--	--	730,000	--	--
Manganese	400	360	310	300	340	350	630	636	--	1,600	4,100	--	0.15
Mercury	0.02	0.022	0.03	0.028	0.016 J	0.018	0.89	--	--	10	0.1	--	0.002
Nickel	11	36	35	37	25	25	100	--	--	1,600	4,100	--	0.1
Potassium	650	2,600	2,800	2,900	1,800	1,800	--	--	--	--	--	--	--
Selenium	0.34 J	ND U	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	310	240	190	190	590	190	--	--	--	--	--	--	--
Thallium	ND U	ND U	0.41 J	0.47 J	ND U	0.45 J	2.6	--	--	6.3	160	--	0.002
Vanadium	14	19	21	19	19	15	550	--	--	550	1,400	--	0.049
Zinc	56	56	55	53	61	43	5,100	--	--	23,000	61,000	--	5
TCPL Metals (mg/L)													
Barium	0.25 J	0.6	0.64	0.5	0.29 J	0.47 J	--	--	--	--	--	2	--
Boron	0.57	0.074 J	0.54	0.58	0.57	0.45 J	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	ND U	0.02 J	0.017 J	0.023 J	ND U	0.017 J	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	1.7 L	2.3 L	2 L	2.2 L	1.5 L	1.8 L	--	--	--	--	--	0.15	--
Nickel	ND U	0.053	0.045	0.056	0.011 J	0.043	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	0.24 J	0.067 J	1.2	0.14 J	0.63	0.36 J	--	--	--	--	--	5	--
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.18 L	0.16 L	0.34 L	0.44 L	0.28 L	0.11	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria												
	2746-01-B16				2746-01-B17		MACs			TACO									
BORING	2746-01-B16 (0-8)		2746-01-B16 (8-16)		2746-01-B16 (16-24)		2746-01-B16 (24-30)		2746-01-B17 (0-8)		2746-01-B17 (8-16)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-8	8-16	16-24	24-30	0-8	8-16													
pH	9.02 #	8.29	8.09	8.37	9.11 #	8.39													
VOCs (soil: mg/kg, water: mg/L)																			
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	--	--	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	--	--	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	--	--	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)																			
2-Methylnaphthalene	0.098	ND U	0.1	0.2	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Acenaphthene	0.36	0.0091 J	ND U	ND U	0.0068 J	ND U	ND U	ND U	570	--	--	4,700	120,000	--	--	--	--	0.42	
Acenaphthylene	0.019 J	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Anthracene	1.2	0.008 J	ND U	ND U	0.012 J	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	--	--	--	2.1	
Benzo[a]anthracene	1.9 †mr*	ND U	ND U	0.0075 J	0.043	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--	--	--	--	0.00013	
Benzo[a]pyrene	1.6 †	ND U	ND U	ND U	0.043	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	--	--	--	0.0002	
Benzo[b]fluoranthene	2.9 †mr*	ND U	ND U	ND U	0.071	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	--	--	--	0.00018	
Benzo[g,h,i]perylene	0.48	ND U	0.015 J	0.014 J	0.014 J	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	1.1	ND U	ND U	ND U	0.03 J	ND U	ND U	ND U	9	--	--	9	1,700	--	--	--	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	--	--	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	--	--	--	1.4	
Carbazole	0.41	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	--	--	--	
Chrysene	1.7	0.032 J	0.024 J	0.033 J	0.049	0.017 J	ND U	ND U	88	--	--	88	17,000	--	--	--	--	0.0015	
Dibenz[a,h]anthracene	0.2 †	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	--	--	--	0.0003	
Dibenzofuran	0.33	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	--	--	--	0.7	
Fluoranthene	5.2	0.017 J	0.0088 J	0.015 J	0.092	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	--	--	--	0.28	
Fluorene	0.59	0.01 J	0.0076 J	ND U	0.007 J	0.0067 J	ND U	ND U	560	--	--	3,100	82,000	--	--	--	--	0.28	
Indeno[1,2,3-cd]pyrene	0.57	ND U	ND U	ND U	0.016 J	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	--	--	--	0.00043	
Naphthalene	0.1	ND U	0.042	0.062	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	--	--	--	0.14	
Phenanthrene	5.2	0.093	0.085	0.14	0.059	0.031 J	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Pyrene	4.7	0.044	0.034 J	0.048	0.1	0.021 J	ND U	ND U	2,300	--	--	2,300	61,000	--	--	--	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)																			
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	--	--	--	0.006	
Arsenic	3.2	6	7.6	5.7	3.5	4.9	ND U	ND U	11.3	13	--	13	61	--	--	--	--	0.05	
Barium	21	29	31	35	28	11	ND U	ND U	1,500	--	--	5,500	14,000	--	--	--	--	2	
Beryllium	0.23	0.53	0.48	0.51	0.3	0.25	ND U	ND U	22	--	--	160	410	--	--	--	--	0.004	
Boron	4.3	9.6	10	12	4.9	6	ND U	ND U	40	--	--	16,000	41,000	--	--	--	--	2	
Cadmium	0.069 J	ND U	ND U	ND U	0.071 J	ND U	ND U	ND U	5.2	--	--	78	200	--	--	--	--	0.005	
Calcium	85,000	67,000	63,000	54,000	57,000	63,000	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Chromium	6.9	14	14	15	9.7	7.8	ND U	ND U	21	--	--	230	690	--	--	--	--	0.1	
Cobalt	8.4	11	11	12	6.4	7.5	ND U	ND U	20	--	--	4,700	12,000	--	--	--	--	1	
Copper	14	23	24	21	13	19	ND U	ND U	2,900	--	--	2,900	8,200	--	--	--	--	0.65	
Iron	8,900	15,000	14,000	14,000	10,000	9,500	ND U	ND U	15,000	15,900	--	--	--	--	--	--	--	5	
Lead	8.2	12	13	13	12	8.6	ND U	ND U	107	--	--	400	700	--	--	--	--	0.0075	
Magnesium	37,000	30,000	26,000	20,000	26,000	30,000	ND U	ND U	325,000	--	--	--	730,000	--	--	--	--	--	
Manganese	460	370	300	260	390	350	ND U	ND U	630	636	--	1,600	4,100	--	--	--	--	0.15	
Mercury	0.01 J	0.017	0.021	0.023	0.014 J	ND U	ND U	ND U	0.89	--	--	10	0.1	--	--	--	--	0.002	
Nickel	15	28	29	34	16	26	ND U	ND U	100	--	--	1,600	4,100	--	--	--	--	0.1	
Potassium	620	2,000	1,900	2,200	820	1,100	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Selenium	ND U	ND U	0.55	0.31 J	ND U	0.32 J	ND U	ND U	1.3	--	--	390	1,000	--	--	--	--	0.05	
Silver	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	--	--	--	0.05	
Sodium	200	220	150	160	320	210	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Thallium	ND U	0.57 J	0.39 J	ND U	ND U	0.26 J	ND U	ND U	2.6	--	--	6.3	160	--	--	--	--	0.002	
Vanadium	11	16	16	17	16	11	ND U	ND U	550	--	--	550	1,400	--	--	--	--	0.049	
Zinc	41	43	51	50	54	54	ND U	ND U	5,100	--	--	23,000	61,000	--	--	--	--	5	
TCLP Metals (mg/L)																			
Barium	0.25 J	0.48 J	0.56	0.48 J	0.25 J	0.22 J	ND U	ND U	--	--	--	--	--	--	--	--	--	2	
Boron	0.48 J	0.53	0.59	0.67	0.43 J	0.44 J	ND U	ND U	--	--	--	--	--	--	--	--	--	--	
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.005	
Cobalt	0.013 J	0.025	0.018 J	0.024 J	ND U	0.024 J	ND U	ND U	--	--	--	--	--	--	--	--	--	1	
Iron	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	5	
Lead	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.0075	
Manganese	1.9 L	2.5 L	1.9 L	2 L	1.7 L	1.7 L	ND U	ND U	--	--	--	--	--	--	--	--	--	0.15	
Nickel	0.018 J	0.058	0.046	0.056	0.011 J	0.042	ND U	ND U	--	--	--	--	--	--	--	--	--	0.1	
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.05	
Zinc	0.15 J	0.26 J	0.22 J	0.11 J	0.25 J	0.64	ND U	ND U	--	--	--	--	--	--	--	--	--	5	
SPLP Metals (mg/L)																			
Boron	NA	NA	NA	NA	NA	NA	ND U	ND U	--	--	--	--	--	--	--	--	--	2	
Cadmium	NA	NA	NA	NA	NA	NA	ND U	ND U	--	--	--	--	--	--	--	--	--	0.005	
Lead	NA	NA	NA	NA	NA	NA	ND U	ND U	--	--	--	--	--	--	--	--	--	0.0075	
Manganese	0.17 L	0.051	0.36 L	0.37 L	0.031	0.082	ND U	ND U	--	--	--	--	--	--	--	--	--	0.15	
Zinc	NA	NA	NA	NA	NA	NA	ND U	ND U	--	--	--	--	--	--	--	--	--	5	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria						
	2746-01-B18			2746-01-B19			MACs			TACO			
BORING	2746-01-B18 (0-8)	2746-01-B18 (8-16)	2746-01-B18 (16-24)	2746-01-B18 (24-30)	2746-01-B18 (24-30)	2746-01-B19 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	8-16	16-24	24-30	24-30	0-2							
pH	8.74	8.03	8.43	8.36	8.37	8.82							
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	0.021	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	0.051	0.12	0.15	0.16	ND U	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	0.017 J	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	0.018 J	ND U	ND U	0.0098 J	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.077	ND U	ND U	0.0088 J	0.0061 J	0.013 J	0.9	1.8	1.1	1.8	170	--	0.0013
Benzo[a]pyrene	0.086	ND U	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.16	ND U	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	0.043 J	0.015 J	0.021 J	0.014 J	0.014 J	ND U	--	--	--	--	--	--	--
Benzo[k]fluoranthene	0.055	ND U	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.11	0.025 J	0.03 J	0.032 J	0.032 J	0.029 J	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	0.012 J	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.19	ND U	0.011 J	0.016 J	0.013 J	0.022 J	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	0.01 J	0.017 J	0.015 J	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	0.051 J	ND U	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	ND U	0.016 J	0.043	0.047	0.047	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.086	0.053	0.09	0.15	0.14	0.014 J	--	--	--	--	--	--	--
Pyrene	0.14 J	0.021 J	0.033 J	0.045	0.045	0.033 J	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND UJ	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	4.3 J	5.8	5.6	6.9	4.2	6.7	11.3	13	--	13	61	--	0.05
Barium	30	34	43	26	41	43	1,500	--	--	5,500	14,000	--	2
Beryllium	0.41	0.59	0.65	0.48	0.6	0.73	22	--	--	160	410	--	0.004
Boron	4.3 J	11	14	12	13	15	40	--	--	16,000	41,000	--	2
Cadmium	0.037 J	ND U	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--	0.005
Calcium	45,000	69,000	59,000	61,000	52,000	80,000	--	--	--	--	--	--	--
Chromium	12	16	17	13	16	19	21	--	--	230	690	--	0.1
Cobalt	5.5 J	12	13	12	12	13	20	--	--	4,700	12,000	--	1
Copper	15 J	24	22	25	19	25	2,900	--	--	2,900	8,200	--	0.65
Iron	11,000 J	16,000 †m	17,000 †m	15,000	16,000 †m	19,000 †m	15,000	15900	--	--	--	--	5
Lead	15 J	13	13	13	12	14	107	--	--	400	700	--	0.0075
Magnesium	22,000	29,000	24,000	27,000	19,000	25,000	325,000	--	--	--	730,000	--	--
Manganese	240	380	320	350	270	330	630	636	--	1,600	4,100	--	0.15
Mercury	0.021	0.019	0.025	0.019	0.017	0.012 J	0.89	--	--	10	0.1	--	0.002
Nickel	17	31	35	30	32	37	100	--	--	1,600	4,100	--	0.1
Potassium	850 J	2,400	2,600	2,100	2,400	3,000	--	--	--	--	--	--	--
Selenium	0.42 J	ND U	0.29 J	0.47 J	ND U	0.43 J	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	380	260	180	160	180	900	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	0.54	2.6	--	--	6.3	160	--	0.002
Vanadium	19	19	20	15	18	21	550	--	--	550	1,400	--	0.049
Zinc	58	51	54	55	49	58	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)													
Barium	0.26 J	0.5	0.62	0.47 J	0.47 J	0.49 J	--	--	--	--	--	2	--
Boron	0.054 J	0.054 J	0.72 J	0.53	0.53	ND U	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	ND U	0.021 J	0.017 J	0.026	0.022 J	ND U	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	1.8 L	2.3 L	2.1 L	1.9 L	1.8 L	0.74 L	--	--	--	--	--	0.15	--
Nickel	ND U	0.052	0.043	0.061	0.053	ND U	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	0.056 J	ND U	0.22 J	0.039 J	0.12 J	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.18 L	0.18 L	0.37 L	0.32 L	0.28 L	0.61 L	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)						Comparison Criteria						
	2746-01-B20			2746-01-B21		2746-01-B22	MACs			TACO			
BORING	2746-01-B20 (0-7)	2746-01-B20 (7-14)	2746-01-B20 (14-20)	2746-01-B21 (0-7)	2746-01-B21 (7-14)	2746-01-B22 (0-2)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil							
MATRIX													
DEPTH (feet)	0-7	7-14	14-20	0-7	7-14	0-2							
pH	8.28	8.13	8.24	8.15	8.23	8.2							
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	0.0039	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	0.045	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	0.02 J	0.093	ND U	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	ND U	0.013 J	0.0079 J	ND U	ND U	0.0087 J	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	0.0085 J	--	--	--	--	--	--	--
Anthracene	ND U	0.0066 J	ND U	0.012 J	ND U	0.036 J	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.013 J	ND U	0.0055 J	0.04	ND U	0.22	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo[a]pyrene	0.017 J	ND U	ND U	0.043	ND U	0.2	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.021 J	ND U	ND U	0.06	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	0.017 J	ND U	0.018 J	0.022 J	ND U	0.092	--	--	--	--	--	--	--
Benzo[k]fluoranthene	ND U	ND U	ND U	0.026 J	ND U	0.36	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.033 J	0.034 J	0.031 J	0.045	0.019 J	0.24	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	ND U	0.026 J	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.031 J	0.011 J	0.011 J	0.092	ND U	0.46	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	0.0097 J	0.01 J	0.0056 J	ND U	0.01 J	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	0.022 J	ND U	0.096	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	ND U	ND U	0.039	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.032 J	0.097	0.11	0.059	0.025 J	0.17	--	--	--	--	--	--	--
Pyrene	0.038	0.034 J	0.035 J	0.071	0.015 J	0.51	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	6.4	6.8	9.5	4.6	3.4	7	11.3	13	--	13	61	--	0.05
Barium	49	28	32	41	46	59	1,500	--	--	5,500	14,000	--	2
Beryllium	0.6	0.52	0.49	0.44	0.61	0.72	22	--	--	160	410	--	0.004
Boron	7.7	10	12	8.6	13	12	40	--	--	16,000	41,000	--	2
Cadmium	0.038 J	0.053 J	ND U	0.11 J	0.072 J	ND U	5.2	--	--	78	200	--	0.005
Calcium	60,000	64,000	68,000	110,000	79,000	25,000	--	--	--	--	--	--	--
Chromium	16	13	20	12	18	19	21	--	--	230	690	--	0.1
Cobalt	9.7	12	13	8.8	12	14	20	--	--	4,700	12,000	--	1
Copper	22	28	28	20	21	25	2,900	--	--	2,900	8,200	--	0.65
Iron	17,000 †m	16,000 †m	18,000 †m	13,000	17,000 †m	18,000 †m	15,000	15900	--	--	--	--	5
Lead	13	16	15	19	11	58	107	--	--	400	700	--	0.0075
Magnesium	26,000	26,000	31,000	49,000	33,000	15,000	325,000	--	--	--	730,000	--	--
Manganese	370	330	370	520	420	350	630	636	--	1,600	4,100	--	0.15
Mercury	0.026	0.018 J	0.02	0.019	0.016 J	0.032	0.89	--	--	10	0.1	--	0.002
Nickel	26	31	33	23	30	32	100	--	--	1,600	4,100	--	0.1
Potassium	1,800	2,000	2,000	1,500	2,800	2,400	--	--	--	--	--	--	--
Selenium	ND U	0.35 J	ND U	ND U	0.58 J	0.5 J	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	0.058 J	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	210	160	170	430	210	2,400	--	--	--	--	--	--	--
Thallium	ND U	0.64	0.45 J	ND U	ND U	0.51 J	2.6	--	--	6.3	160	--	0.002
Vanadium	24	15	16	16	20	24	550	--	--	550	1,400	--	0.049
Zinc	57	49	55	49	51	100	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)													
Barium	0.28 J	0.38 J	0.46 J	0.27 J	0.43 J	0.51	--	--	--	--	--	2	--
Boron	ND U	0.076 J	0.091 J	ND U	ND U	ND U	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	0.013 J	0.019 J	0.014 J	ND U	0.011 J	ND U	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	1.7 L	1.7 L	1.5 L	2 L	1.8 L	0.58 L	--	--	--	--	--	0.15	--
Nickel	0.011 J	0.047	0.037	ND U	0.024 J	ND U	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.19 L	0.092	0.46 L	0.011 J	0.096	0.97 L	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria						
	BORING	2746-01-B23	2746-01-B24	2746-01-B25		MACs			TACO			
SAMPLE	2746-01-B23 (0-2)	2746-01-B24 (0-5)	2746-01-B25 (0-7)	2746-01-B25 (7-14)	2746-01-B25 (14-20)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
MATRIX	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-2	0-5	0-7	7-14	14-20							
pH	8.57	8.51	7.94	8.24	8.57							
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	0.0074	ND U	0.027	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	0.0056	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.043	ND U	0.0098 J	ND U	0.0077 J	--	--	--	--	--	--	--
Acenaphthene	0.77	ND U	0.097 J	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.052	ND U	ND UJ	ND U	ND U	--	--	--	--	--	--	--
Anthracene	6.5	ND U	0.4 J	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	12 †mr*	0.0056 J	0.57 J	ND U	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo[a]pyrene	8.5 †mr*	ND U	0.46 J †	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	14 †mr*	ND U	0.77 J	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	2	ND U	0.13 J	ND U	ND U	--	--	--	--	--	--	--
Benzo[k]fluoranthene	4	ND U	0.32 J	ND U	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND UJ	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND UJ	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	0.79 †	ND U	0.14 J	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	11	ND U	0.61 J	0.013 J	0.017 J	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	0.84 †mr*	ND U	0.04 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	0.51	ND U	0.064 J	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND UJ	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	24	0.0086 J	1.6 J	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	1.2	ND U	0.15 J	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	2.4 †mr*	ND U	0.14 J	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.046	ND U	0.014 J	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	16	ND U	1.5 J	0.0097 J	0.025 J	--	--	--	--	--	--	--
Pyrene	29	0.0083 J	1.3 J	0.011 J	ND U	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND UJ	ND U	5	--	--	31	82	--	0.006
Arsenic	6.7	2.9	6.7	4.5 J	5.7	11.3	13	--	13	61	--	0.05
Barium	78	45	81	42 J	38	1,500	--	--	5,500	14,000	--	2
Beryllium	0.65	0.43	0.56	0.54	0.46	22	--	--	160	410	--	0.004
Boron	11	4	7.1	12 J	12	40	--	--	16,000	41,000	--	2
Cadmium	0.37	ND U	0.27	ND U	0.037 J	5.2	--	--	78	200	--	0.005
Calcium	53,000	14,000	29,000	79,000 J	88,000	--	--	--	--	--	--	--
Chromium	17	14	15	16 J	15	21	--	--	230	690	--	0.1
Cobalt	12	5.2	13	11 J	10	20	--	--	4,700	12,000	--	1
Copper	26	8.2	24	17	20	2,900	--	--	2,900	8,200	--	0.65
Iron	18,000 †m	10,000	16,000 †m	16,000 J †m	16,000 †m	15,000	15900	--	--	--	--	5
Lead	59	11	40	10	11	107	--	--	400	700	--	0.0075
Magnesium	19,000	9,800	18,000	31,000 J	37,000	325,000	--	--	--	730,000	--	--
Manganese	370	120	490	390 J	440	630	636	--	1,600	4,100	--	0.15
Mercury	0.062	0.029	0.026	0.02	0.024	0.89	--	--	10	0.1	--	0.002
Nickel	29	14	28	28 J	26	100	--	--	1,600	4,100	--	0.1
Potassium	2,300	800	1,400	2,400 J	2,300	--	--	--	--	--	--	--
Selenium	ND U	ND U	0.67	ND UJ	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	2,100	820	150	180	200	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	0.42 J	2.6	--	--	6.3	160	--	0.002
Vanadium	22	19	24	18	17	550	--	--	550	1,400	--	0.049
Zinc	74	58	84	47 J	47	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)												
Barium	0.56	0.36 J	0.5	0.63	0.64	--	--	--	--	--	2	--
Boron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--
Cadmium	0.0025 J	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	ND U	0.012 J	ND U	0.014 J	0.016 J	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	ND U	0.0097 L	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	1.4 L	1.6 L	1.1 L	2.2 L	2.2 L	--	--	--	--	--	0.15	--
Nickel	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	1.1 J	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	NA	0.05 L	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.65 L	0.4 L	0.12	0.13	0.24 L	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B26		2746-01-B27	2746-01-B28	MACs			TACO				
BORING	2746-01-B26 (0-8)		2746-01-B27 (0-8)	2746-01-B28 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
SAMPLE	Soil	Soil	Soil	Soil								
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-8	0-8	0-8	0-8								
pH	8.44	8.42	8.68	7.77								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	0.017	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	0.015 J	0.008 J	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.073	0.045	0.018 J	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	0.074	0.05	0.018 J	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	0.14	0.097	0.027 J	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	0.031 J	0.024 J	ND U	ND U	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	0.043	0.037 J	0.012 J	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.094	0.064	0.019 J	ND U	88	--	--	88	17,000	--	0.0015	
Dibenz[a,h]anthracene	0.01 J	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	0.15	0.095	0.032 J	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	0.0063 J	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	0.029 J	0.021 J	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.07	0.046	0.013 J	ND U	--	--	--	--	--	--	--	
Pyrene	0.14	0.09	0.028 J	ND U	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	7	4.8	3.8	9	11.3	13	--	13	61	--	0.05	
Barium	64	69	72	22	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.65	0.62	0.72	0.45	22	--	--	160	410	--	0.004	
Boron	7	7.4	11	2.9	40	--	--	16,000	41,000	--	2	
Cadmium	ND U	ND U	0.067 J	ND U	5.2	--	--	78	200	--	0.005	
Calcium	29,000	23,000	33,000	1,500	--	--	--	--	--	--	--	
Chromium	16	18	20	14	21	--	--	230	690	--	0.1	
Cobalt	11	8.2	16	8.6	20	--	--	4,700	12,000	--	1	
Copper	27	23	18	17	2,900	--	--	2,900	8,200	--	0.65	
Iron	18,000 †m	16,000 †m	18,000 †m	18,000 †m	15,000	15,900	--	--	--	--	5	
Lead	19	17	14	14	107	--	--	400	700	--	0.0075	
Magnesium	19,000	14,000	14,000	2,000	325,000	--	--	--	730,000	--	--	
Manganese	300	230	450	120	630	636	--	1,600	4,100	--	0.15	
Mercury	0.035	0.04	0.028	0.027	0.89	--	--	10	0.1	--	0.002	
Nickel	28	26	34	20	100	--	--	1,600	4,100	--	0.1	
Potassium	1,400	1,600	2,400	910	--	--	--	--	--	--	--	
Selenium	ND U	0.53 J	ND U	0.33 J	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	320	350	380	660	--	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	27	21	24	26	550	--	--	550	1,400	--	0.049	
Zinc	49	47	51	44	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.61	0.62	0.54	ND U	--	--	--	--	--	2	--	
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	ND U	ND U	ND U	0.011 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	0.0082 L	ND U	0.014 L	--	--	--	--	--	0.0075	--	
Manganese	0.5 L	0.89 L	0.33 L	1.2 L	--	--	--	--	--	0.15	--	
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	0.046 J L	NA	0.027 J L	--	--	--	--	--	0.0075	--	
Manganese	0.31 L	0.38 L	0.13	0.27 L	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B29			2746-01-B30	MACs			TACO				
BORING	2746-01-B29 (0-7)	2746-01-B29 (7-14)	2746-01-B29 (14-20)	2746-01-B30 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
SAMPLE	Soil	Soil	Soil	Soil								
MATRIX	0-7	7-14	14-20	0-8								
DEPTH (feet)	8.23	7.95	8.56	8.76								
pH												
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	0.013	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	0.057	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	ND U	0.06	ND U	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.019 J	ND U	ND U	0.0081 J	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	0.019 J	ND U	ND U	0.0089 J	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	0.034 J	ND U	ND U	0.013 J	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	ND U	ND U	0.017 J	ND U	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	0.013 J	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.026 J	0.015 J	0.021 J	0.013 J	88	--	--	88	17,000	--	0.0015	
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	0.041	ND U	0.0077 J	0.013 J	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	ND U	0.031 J	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.024 J	0.018 J	0.05	0.013 J	--	--	--	--	--	--	--	
Pyrene	0.035 J	0.015 J	0.018 J	0.014 J	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	7	4.6	6.2	5.8	11.3	13	--	13	61	--	0.05	
Barium	83	60	54	86	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.89	0.75	0.66	0.99	22	--	--	160	410	--	0.004	
Boron	5.7	15	15	7.3	40	--	--	16,000	41,000	--	2	
Cadmium	ND U	ND U	ND U	0.075 J	5.2	--	--	78	200	--	0.005	
Calcium	9,200	56,000	57,000	9,800	--	--	--	--	--	--	--	
Chromium	22 †	20	21	25 †	21	--	--	230	690	--	0.1	
Cobalt	11	12	14	12	20	--	--	4,700	12,000	--	1	
Copper	20	21	23	24	2,900	--	--	2,900	8,200	--	0.65	
Iron	23,000 †m	19,000 †m	20,000 †m	22,000 †m	15,000	15,900	--	--	--	--	5	
Lead	14	13	13	18	107	--	--	400	700	--	0.0075	
Magnesium	8,500	22,000	23,000	7,600	325,000	--	--	--	730,000	--	--	
Manganese	240	280	330	190	630	636	--	1,600	4,100	--	0.15	
Mercury	0.039	0.023	0.025	0.029	0.89	--	--	10	0.1	--	0.002	
Nickel	32	35	38	35	100	--	--	1,600	4,100	--	0.1	
Potassium	1,600	3,000	3,000	2,000	--	--	--	--	--	--	--	
Selenium	0.58	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	1,700	560	220	1,000	--	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	31	22	22	31	550	--	--	550	1,400	--	0.049	
Zinc	65	55	55	69	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.49 J	0.5	0.92	0.53	--	--	--	--	--	2	--	
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.014 J	ND U	0.024 J	ND U	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	3.3 L	1.3 L	2 L	0.58 L	--	--	--	--	--	0.15	--	
Nickel	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	1.3 L	0.44 L	0.24 L	0.26 L	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria						
	2746-01-B31	2746-01-B32	2746-01-B33	2746-01-B34	2746-01-B35	MACs			TACO			
SAMPLE	2746-01-B31 (0-8)	2746-01-B32 (0-8)	2746-01-B33 (0-8)	2746-01-B34 (0-8)	2746-01-B35 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
MATRIX	Soil	Soil	Soil	Soil	Soil							
DEPTH (feet)	0-8	0-8	0-8	0-8	0-8							
pH	8.9	8.41	8.21	8.52	7.7							
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	0.0068 J	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	0.018 J	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.074	ND U	ND U	0.016 J	ND U	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo[a]pyrene	0.19 †	ND U	ND U	0.016 J	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.34	ND U	ND U	0.028 J	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	0.16	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Benzo[k]fluoranthene	0.17	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.13	ND U	ND U	0.02 J	ND U	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	0.039 J	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.12	ND U	ND U	0.034 J	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	0.14	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.0068 J	ND U	ND U	ND U	ND U	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.048	ND U	ND U	0.013 J	ND U	--	--	--	--	--	--	--
Pyrene	0.15	ND U	ND U	0.027 J	ND U	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	8.4	5.2	5.5	7.7	29 †mr	11.3	13	--	13	61	--	0.05
Barium	100	84	130	72	98	1,500	--	--	5,500	14,000	--	2
Beryllium	0.8	0.69	1.1	0.75	0.9	22	--	--	160	410	--	0.004
Boron	8.8	4	4.3	9.2	6.6	40	--	--	16,000	41,000	--	2
Cadmium	0.22	ND U	0.15	0.071 J	ND U	5.2	--	--	78	200	--	0.005
Calcium	10,000	3,100	4,400	26,000	5,600	--	--	--	--	--	--	--
Chromium	21	19	24 †	19	23 †	21	--	--	230	690	--	0.1
Cobalt	15	9.5	15	12	16	20	--	--	4,700	12,000	--	1
Copper	23	15	24	23	24	2,900	--	--	2,900	8,200	--	0.65
Iron	21,000 †m	18,000 †m	22,000 †m	20,000 †m	22,000 †m	15,000	15900	--	--	--	--	5
Lead	44	13	24	51	17	107	--	--	400	700	--	0.0075
Magnesium	6,500	3,600	4,800	16,000	6,900	325,000	--	--	--	730,000	--	--
Manganese	500	240	230	360	430	630	636	--	1,600	4,100	--	0.15
Mercury	0.12	0.037	0.051	0.027	0.025	0.89	--	--	10	0.1	--	0.002
Nickel	29	22	34	27	45	100	--	--	1,600	4,100	--	0.1
Potassium	2,400	1,200	1,500	2,100	2,000	--	--	--	--	--	--	--
Selenium	0.67	0.36 J	0.46 J	0.42 J	0.26 J	1.3	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	1,000	950	340	160	180	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002
Vanadium	29	30	30	26	27	550	--	--	550	1,400	--	0.049
Zinc	120	54	63	70	67	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)												
Barium	0.43 J	0.53	0.57	0.5	0.58	--	--	--	--	--	2	--
Boron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--
Cobalt	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
Lead	0.011 L	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--
Manganese	0.28 L	0.66 L	0.31 L	0.08	0.32 L	--	--	--	--	--	0.15	--
Nickel	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	1.4	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	0.005	--
Lead	0.087 L	NA	NA	NA	NA	--	--	--	--	--	0.0075	--
Manganese	0.52 L	0.43 L	0.15	NA	0.52 L	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	5	--

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria							
	2746-01-B36	2746-01-B37	2746-01-B38	2746-01-B39	2746-01-B40	MACs			TACO				
BORING	2746-01-B36 (0-8)	2746-01-B37 (0-8)	2746-01-B38 (0-8)	2746-01-B39 (0-8)	2746-01-B40 (0-8)								
SAMPLE	Soil	Soil	Soil	Soil	Soil								
MATRIX													
DEPTH (feet)	0-8	0-8	0-8	0-8	0-8								
pH	6.78	7.61	8.12	8.17	8.35	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	ND U	0.09	0.12	0.07	--	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	0.0077 J	12,000	--	--	23,000	610,000	--	--	2.1
Benzo[a]anthracene	ND U	0.015 J	ND U	0.0067 J	0.028 J	0.9	1.8	1.1	1.8	170	--	--	0.00013
Benzo[a]pyrene	ND U	0.016 J	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	--	0.0002
Benzo[b]fluoranthene	ND U	0.027 J	ND U	ND U	0.052	0.9	2.1	1.5	2.1	170	--	--	0.00018
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	0.011 J	9	--	--	9	1,700	--	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	--
Chrysene	ND U	0.025 J	ND U	0.037 J	0.054	88	--	--	88	17,000	--	--	0.0015
Dibenz[a,h]anthracene	ND U	ND UJ	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	--	0.7
Fluoranthene	0.01 J	0.036 J	0.02 J	0.014 J	0.051	3,100	--	--	3,100	82,000	--	--	0.28
Fluorene	ND U	ND U	0.0094 J	0.0077 J	0.0069 J	560	--	--	3,100	82,000	--	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	--	0.00043
Naphthalene	ND U	ND U	0.022 J	0.039	0.022 J	1.8	--	--	170	1.8	--	--	0.14
Phenanthrene	0.0096 J	0.021 J	0.1	0.097	0.09	--	--	--	--	--	--	--	--
Pyrene	0.011 J	0.027 J	0.052	0.048	0.075	2,300	--	--	2,300	61,000	--	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND UJ	ND UJ	ND U	ND U	ND U	5	--	--	31	82	--	--	0.006
Arsenic	5.2 J	6.6 J	5.7	5.4	6.3	11.3	13	--	13	61	--	--	0.05
Barium	39 J	53	49	49	39	1,500	--	--	5,500	14,000	--	--	2
Beryllium	0.74 J	0.71	0.7	0.7	0.59	22	--	--	160	410	--	--	0.004
Boron	14 J	13	15	16	15	40	--	--	16,000	41,000	--	--	2
Cadmium	ND UJ	0.13	ND U	0.07 J	0.039 J	5.2	--	--	78	200	--	--	0.005
Calcium	58,000 J	49,000	70,000	69,000	72,000	--	--	--	--	--	--	--	--
Chromium	21	19	19	18	17	21	--	--	230	690	--	--	0.1
Cobalt	9.6 J	11 J	11	14	12	20	--	--	4,700	12,000	--	--	1
Copper	24 J	29 J	24	24	27	2,900	--	--	2,900	8,200	--	--	0.65
Iron	19,000 J †m	18,000 †m	18,000 †m	18,000 †m	16,000 †m	15,000	15900	--	--	--	--	--	5
Lead	14 J	57 J	13	15	100	107	--	--	400	700	--	--	0.0075
Magnesium	25,000 J	21,000	26,000	28,000	30,000	325,000	--	--	--	730,000	--	--	--
Manganese	300 J	270	310	350	310	630	636	--	1,600	4,100	--	--	0.15
Mercury	0.03	0.028	0.018 J	0.018	0.039	0.89	--	--	10	0.1	--	--	0.002
Nickel	33 J	30	31	35	33	100	--	--	1,600	4,100	--	--	0.1
Potassium	2,900 J	2,800	2,900	3,000	2,700	--	--	--	--	--	--	--	--
Selenium	0.57 J	ND U	0.38 J	0.65	0.33 J	1.3	--	--	390	1,000	--	--	0.05
Silver	ND UJ	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	--	0.05
Sodium	410 J	300	510	660	1,000	--	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	--	0.002
Vanadium	23 J	23	21	21	19	550	--	--	550	1,400	--	--	0.049
Zinc	56 J	67 J	56	54	58	5,100	--	--	23,000	61,000	--	--	5
TCLP Metals (mg/L)													
Barium	0.38 J	0.46 J	0.25 J	0.53	0.44 J	--	--	--	--	--	--	--	2
Boron	ND U	ND U	ND U	0.065 J	0.069 J	--	--	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	0.005
Cobalt	ND U	ND U	0.022 J	0.012 J	0.014 J	--	--	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	0.017 L	--	--	--	--	--	--	--	0.0075
Manganese	0.51 L	0.79 L	1.6 L	1.5 L	2.2 L	--	--	--	--	--	--	--	0.15
Nickel	ND U	ND U	0.058	0.034	0.025	--	--	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	0.05
Zinc	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	5
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	2
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	0.15 L	--	--	--	--	--	--	--	0.0075
Manganese	0.014 J	0.13	0.065	0.48 L	0.74 L	--	--	--	--	--	--	--	0.15
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	5

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B41		2746-01-B42		MACs			TACO				
SAMPLE	2746-01-B41 (0-5)	2746-01-B41 (5-10)	2746-01-B42 (0-6)	2746-01-B42 (6-11)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-5	5-10	0-6	6-11								
pH	8.22	8.14	8.25	8.17								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.054	0.16	0.18	0.14	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	0.0075 J	0.013 J	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	0.007 J	0.0071 J	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.012 J	ND U	0.011 J	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	ND U	ND U	0.018 J	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	0.087	0.023 J	0.026 J	0.021 J	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.048	0.029 J	0.04	ND U	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	0.013 J	0.01 J	0.013 J	0.015 J	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	0.0077 J	0.0095 J	0.0082 J	0.011 J	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	0.016 J	0.06	0.045	0.046	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.096	0.11	0.12	0.13	--	--	--	--	--	--	--	
Pyrene	0.091	0.027 J	0.073	0.031 J	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	5	7.9	4.8	6.6	11.3	13	--	13	61	--	0.05	
Barium	41	57	47	34	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.59	0.54	0.58	0.6	22	--	--	160	410	--	0.004	
Boron	15	14	13	13	40	--	--	16,000	41,000	--	2	
Cadmium	0.034 J	ND U	0.032 J	ND U	5.2	--	--	78	200	--	0.005	
Calcium	87,000	63,000	66,000	68,000	--	--	--	--	--	--	--	
Chromium	17	16	16	15	21	--	--	230	690	--	0.1	
Cobalt	12	14	11	13	20	--	--	4,700	12,000	--	1	
Copper	22	27	23	29	2,900	--	--	2,900	8,200	--	0.65	
Iron	17,000 †m	18,000 †m	16,000 †m	18,000 †m	15,000	15900	--	--	--	--	5	
Lead	15	14	13	14	107	--	--	400	700	--	0.0075	
Magnesium	34,000	29,000	28,000	28,000	325,000	--	--	--	730,000	--	--	
Manganese	340	440	350	430	630	636	--	1,600	4,100	--	0.15	
Mercury	0.016 J	0.019	0.017	0.019	0.89	--	--	10	0.1	--	0.002	
Nickel	31	35	29	34	100	--	--	1,600	4,100	--	0.1	
Potassium	2,700	2,500	2,500	2,400	--	--	--	--	--	--	--	
Selenium	ND U	0.57 J	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	1,000	420	820	230	--	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	19	18	18	17	550	--	--	550	1,400	--	0.049	
Zinc	49	56	46	52	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.38 J	0.52	0.51	0.54	--	--	--	--	--	2	--	
Boron	0.06 J	0.08 J	0.072 J	0.097 J	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.012 J	0.012 J	0.014 J	0.015 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	1.4 L	1.5 L	1.4 L	1.6 L	--	--	--	--	--	0.15	--	
Nickel	0.031	0.03	0.033	0.038	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	0.57 L	0.26 L	0.13	0.022 J	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B43		2746-01-B44		MACs			TACO				
SAMPLE	2746-01-B43 (0-7)	2746-01-B43 (7-14)	2746-01-B44 (0-7)	2746-01-B44 (7-14)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-7	7-14	0-7	7-14								
pH	8.57	8.03	7.91	8.2								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.059	0.14	0.12	0.15	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	0.028 J	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	0.022 J	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	0.09	0.018 J	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.014 J	ND U	0.4	0.065	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	0.016 J	ND U	0.43 †	0.069	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	ND U	ND U	0.81	0.15	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	ND U	ND U	0.27	0.047	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	ND U	ND U	0.32	0.043	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	0.12 J	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	0.18 J	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.036 J	0.027 J	0.46	0.1	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	0.049	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	0.033 J	ND U	0.89	0.16	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	0.028 J	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	ND U	ND U	0.25	0.041	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	0.019 J	0.064	0.042	0.05	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.075	0.093	0.48	0.14	--	--	--	--	--	--	--	
Pyrene	0.052	0.025 J	0.98	0.17	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	4.6	7.1	6.9	5.9	11.3	13	--	13	61	--	0.05	
Barium	37	41	91	45	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.51	0.56	0.63	0.66	22	--	--	160	410	--	0.004	
Boron	11	14	14	15	40	--	--	16,000	41,000	--	2	
Cadmium	ND U	ND U	0.44	ND U	5.2	--	--	78	200	--	0.005	
Calcium	62,000	80,000	81,000	71,000	--	--	--	--	--	--	--	
Chromium	14	16	21	17	21	--	--	230	690	--	0.1	
Cobalt	9.9	12	12	14	20	--	--	4,700	12,000	--	1	
Copper	19	22	55	30	2,900	--	--	2,900	8,200	--	0.65	
Iron	14,000	17,000 †m	21,000 †m	18,000 †m	15,000	15900	--	--	--	--	5	
Lead	13	13	820 †rc	19	107	--	--	400	700	--	0.0075	
Magnesium	20,000	27,000	28,000	25,000	325,000	--	--	--	730,000	--	--	
Manganese	300	370	370	340	630	636	--	1,600	4,100	--	0.15	
Mercury	0.012 J	ND U	0.029	0.017 J	0.89	--	--	10	0.1	--	0.002	
Nickel	26	33	35	37	100	--	--	1,600	4,100	--	0.1	
Potassium	2,200	2,700	2,500	2,800	--	--	--	--	--	--	--	
Selenium	ND U	0.49 J	0.37 J	0.47 J	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	0.11 J	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	1,200	280	1,300	220	--	--	--	--	--	--	--	
Thallium	0.29 J	0.39 J	ND U	0.28 J	2.6	--	--	6.3	160	--	0.002	
Vanadium	16	18	20	18	550	--	--	550	1,400	--	0.049	
Zinc	62	61	200	53	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.8	0.83	0.18 J	0.75	--	--	--	--	--	2	--	
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--	
Cadmium	0.002 J	ND U	0.0024 J	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.022 J	0.015 J	0.017 J	0.011 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	0.14 L	ND U	--	--	--	--	--	0.0075	--	
Manganese	2.3 L	2 L	1.8 L	1.9 L	--	--	--	--	--	0.15	--	
Nickel	ND U	0.064	0.054	ND U	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	ND U	ND U	ND U	0.94	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	0.21 L	NA	--	--	--	--	--	0.0075	--	
Manganese	1 L	0.035	0.6 L	0.3 L	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B45		2746-01-B46		MACs			TACO				
SAMPLE	2746-01-B45 (0-7)	2746-01-B45 (7-14)	2746-01-B46 (0-5)	2746-01-B46 (5-10)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-7	7-14	0-5	5-10								
pH	8.03	7.98	7.91	7.88								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	ND U	0.15	ND U	ND U	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	0.0095 J	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.042	0.01 J	0.0055 J	0.0082 J	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	0.046	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	0.089	ND U	0.014 J	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	0.034 J	0.017 J	ND U	ND U	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	0.023 J	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.071	0.018 J	0.019 J	0.013 J	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	0.1	ND U	0.012 J	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	0.028 J	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	0.07	ND U	ND U	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.1	0.09	0.049	0.055	--	--	--	--	--	--	--	
Pyrene	0.11	0.021 J	0.02 J	0.013 J	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	7.2	5.9	5.5	6.3	11.3	13	--	13	61	--	0.05	
Barium	48	45	39	39	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.59	0.58	0.52	0.56	22	--	--	160	410	--	0.004	
Boron	14	11	13	14	40	--	--	16,000	41,000	--	2	
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--	0.005	
Calcium	100,000	77,000	80,000	96,000	--	--	--	--	--	--	--	
Chromium	17	18	15	17	21	--	--	230	690	--	0.1	
Cobalt	13	14	12	13	20	--	--	4,700	12,000	--	1	
Copper	22	25	20	23	2,900	--	--	2,900	8,200	--	0.65	
Iron	18,000 †m	17,000 †m	15,000	17,000 †m	15,000	15900	--	--	--	--	5	
Lead	14	13	11	12	107	--	--	400	700	--	0.0075	
Magnesium	33,000	26,000	31,000	31,000	325,000	--	--	--	730,000	--	--	
Manganese	390	340	300	440	630	636	--	1,600	4,100	--	0.15	
Mercury	0.017 J	0.015 J	0.012 J	0.018	0.89	--	--	10	0.1	--	0.002	
Nickel	34	35	28	34	100	--	--	1,600	4,100	--	0.1	
Potassium	2,800	2,600	2,400	2,700	--	--	--	--	--	--	--	
Selenium	ND U	0.36 J	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	1,500	530	530	230	--	--	--	--	--	--	--	
Thallium	0.31 J	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	20	18	18	19	550	--	--	550	1,400	--	0.049	
Zinc	56	52	45	50	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.75	0.78	0.26 J	0.78	--	--	--	--	--	2	--	
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.014 J	0.016 J	ND U	0.013 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	0.0083 L	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	2.1 L	1.9 L	1.5 L	2 L	--	--	--	--	--	0.15	--	
Nickel	0.053	0.069	ND U	0.055	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	0.45 J	ND U	ND U	0.58	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	ND U	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	0.92 L	0.033	0.013 J	0.087	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B47		2746-01-B48		MACs			TACO				
SAMPLE	2746-01-B47 (0-7)	2746-01-B47 (7-13)	2746-01-B48 (0-7)	2746-01-B48 (7-13)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-7	7-13	0-7	7-13								
pH	7.76	7.87	7.95	8.1								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.023 J	0.068	0.094	0.17	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.0056 J	0.014 J	0.011 J	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	ND U	ND U	0.018 J	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	ND U	0.017 J	ND U	ND U	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	ND U	0.023 J	0.035 J	0.035 J	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	ND U	ND U	0.024 J	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	ND U	0.043	0.048	0.061	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.053	0.089	0.097	0.11	--	--	--	--	--	--	--	
Pyrene	0.012 J	0.021 J	0.032 J	0.017 J	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006	
Arsenic	6.4	5.5	6.2	5.5	11.3	13	--	13	61	--	0.05	
Barium	45	45	44	43	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.67	0.6	0.65	0.61	22	--	--	160	410	--	0.004	
Boron	14	14	15	14	40	--	--	16,000	41,000	--	2	
Cadmium	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--	0.005	
Calcium	75,000	80,000	64,000	79,000	--	--	--	--	--	--	--	
Chromium	18	18	19	16	21	--	--	230	690	--	0.1	
Cobalt	15	13	14	13	20	--	--	4,700	12,000	--	1	
Copper	23	22	27	22	2,900	--	--	2,900	8,200	--	0.65	
Iron	19,000 †m	18,000 †m	18,000 †m	18,000 †m	15,000	15900	--	--	--	--	5	
Lead	15	12	13	12	107	--	--	400	700	--	0.0075	
Magnesium	27,000	26,000	26,000	28,000	325,000	--	--	--	730,000	--	--	
Manganese	410	340	350	380	630	636	--	1,600	4,100	--	0.15	
Mercury	0.012 J	0.013 J	0.017 J	0.011 J	0.89	--	--	10	0.1	--	0.002	
Nickel	36	35	37	33	100	--	--	1,600	4,100	--	0.1	
Potassium	2,900	2,800	2,900	2,800	--	--	--	--	--	--	--	
Selenium	0.31 J	0.62	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	350	200	590	330	--	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	0.54 J	2.6	--	--	6.3	160	--	0.002	
Vanadium	19	19	20	17	550	--	--	550	1,400	--	0.049	
Zinc	51	57	52	48	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.2 J	0.15 J	0.53	0.56	--	--	--	--	--	2	--	
Boron	ND U	ND U	ND U	ND U	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.014 J	0.021 J	0.016 J	0.013 J	--	--	--	--	--	1	--	
Iron	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	1.6 L	2.1 L	2 L	1.8 L	--	--	--	--	--	0.15	--	
Nickel	ND U	ND U	0.056	ND U	--	--	--	--	--	0.1	--	
Selenium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.05	--	
Zinc	ND U	ND U	ND U	ND U	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	0.011 J	0.036	0.079	0.065	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria							
	2746-01-B49			2746-01-B50		MACs			TACO				
	2746-01-B49 (0-6.5)	2746-01-B49 (6.5-13)	2746-01-B49 (6.5-13)	2746-01-B50 (0-6.5)	2746-01-B50 (6.5-13)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
Soil	Soil	Soil	Soil	Soil									
BORING													
SAMPLE	2746-01-B49 (0-6.5)	2746-01-B49 (6.5-13)	2746-01-B49 (6.5-13)	2746-01-B50 (0-6.5)	2746-01-B50 (6.5-13)								
MATRIX	Soil	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-6.5	6.5-13	6.5-13	0-6.5	6.5-13								
pH	8.13	8.36	8.27	7.96	8.36								
VOCs (soil: mg/kg, water: mg/L)													
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	--	0.005
SVOCs (soil: mg/kg, water: mg/L)													
2-Methylnaphthalene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	--	2.1
Benzo[a]anthracene	ND U	ND U	ND U	0.0073 J	ND U	0.9	1.8	1.1	1.8	170	--	--	0.00013
Benzo[a]pyrene	ND U	ND U	ND U	0.011 J	ND U	0.09	2.1	1.3	2.1	17	--	--	0.0002
Benzo[b]fluoranthene	ND U	ND U	ND U	0.018 J	ND U	0.9	2.1	1.5	2.1	170	--	--	0.00018
Benzo[g,h,i]perylene	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	--	0.00017
Bis[2-ethylhexyl] phthalate	ND U	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	930	--	--	930	930	--	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	--
Chrysene	ND U	ND U	ND U	0.02 J	ND U	88	--	--	88	17,000	--	--	0.0015
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	--	0.7
Fluoranthene	ND U	ND U	ND U	0.02 J	ND U	3,100	--	--	3,100	82,000	--	--	0.28
Fluorene	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	--	0.00043
Naphthalene	0.015 J	0.013 J	0.015 J	0.012 J	0.012 J	1.8	--	--	170	1.8	--	--	0.14
Phenanthrene	0.029 J	0.032 J	0.03 J	0.042 J	0.025 J	--	--	--	--	--	--	--	--
Pyrene	0.0081 J	ND U	ND U	0.019 J	ND U	2,300	--	--	2,300	61,000	--	--	0.21
Inorganics (soil: mg/kg, water: mg/L)													
Antimony	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	--	0.006
Arsenic	8.1	6.7	7.5	5.7	5.9	11.3	13	--	13	61	--	--	0.05
Barium	51	44	45	48	44	1,500	--	--	5,500	14,000	--	--	2
Beryllium	0.67	0.6	0.68	0.64	0.69	22	--	--	160	410	--	--	0.004
Boron	14	15	15	13	15	40	--	--	16,000	41,000	--	--	2
Cadmium	ND U	ND U	ND U	ND U	ND U	5.2	--	--	78	200	--	--	0.005
Calcium	53,000	64,000	61,000	54,000	57,000	--	--	--	--	--	--	--	--
Chromium	18	17	18	18	18	21	--	--	230	690	--	--	0.1
Cobalt	13	13	14	13	13	20	--	--	4,700	12,000	--	--	1
Copper	25	23	24	23	24	2,900	--	--	2,900	8,200	--	--	0.65
Iron	20,000 †m	18,000 †m	20,000 †m	18,000 †m	19,000 †m	15,000	15900	--	--	--	--	--	5
Lead	14	13	14	14	14	107	--	--	400	700	--	--	0.0075
Magnesium	27,000	30,000	29,000	27,000	27,000	325,000	--	--	--	730,000	--	--	--
Manganese	350	390	510	340	350	630	636	--	1,600	4,100	--	--	0.15
Mercury	0.019	0.022	0.022	0.026	0.019 J	0.89	--	--	10	0.1	--	--	0.002
Nickel	36	34	36	36	36	100	--	--	1,600	4,100	--	--	0.1
Potassium	2,800	2,700	2,900	2,700	2,900	--	--	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	ND U	1.3	--	--	390	1,000	--	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	--	0.05
Sodium	730	220	230	570	360	--	--	--	--	--	--	--	--
Thallium	0.42 J	0.33 J	0.53 J	0.76	0.38 J	2.6	--	--	6.3	160	--	--	0.002
Vanadium	19	18	19	18	19	550	--	--	550	1,400	--	--	0.049
Zinc	67	47	53	52	53	5,100	--	--	23,000	61,000	--	--	5
TCLP Metals (mg/L)													
Barium	0.74	0.68	0.67	0.63	0.6	--	--	--	--	--	--	--	2
Boron	0.54	0.54	0.49 J	0.077 J	0.55	--	--	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	0.005
Cobalt	0.016 J	0.011 J	0.012 J	0.023 J	0.012 J	--	--	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	5
Lead	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	0.0075
Manganese	1.9 L	1.8 L	1.8 L	2.2 L	1.7 L	--	--	--	--	--	--	--	0.15
Nickel	0.044	0.032	0.033	0.045	0.03	--	--	--	--	--	--	--	0.1
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	0.05
Zinc	0.11 J	0.06 J	0.12 J	ND U	0.033 J	--	--	--	--	--	--	--	5
SPLP Metals (mg/L)													
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	2
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	0.005
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	0.0075
Manganese	0.18 L	0.35 L	0.36 L	0.032	0.025	--	--	--	--	--	--	--	0.15
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	5

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)					Comparison Criteria										
	2746-01-B51		2746-01-B52		2746-01-B53	MACs			TACO							
BORING	2746-01-B51 (0-7)		2746-01-B51 (7-14)		2746-01-B52 (0-6)	2746-01-B52 (6-12)		2746-01-B53 (0-7)		Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
MATRIX																
DEPTH (feet)	0-7	7-14	0-6	6-12	0-7											
pH	7.96	8.11	7.97	7.95	8.88											
VOCs (soil: mg/kg, water: mg/L)																
2-Butanone (MEK)	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)																
2-Methylnaphthalene	ND U	ND U	ND U	0.01 J	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	ND U	0.046	0.0093 J	ND U	0.0074 J	ND UJ	ND UJ	ND UJ	ND UJ	0.9	1.8	1.1	1.8	170	--	0.00013
Benzo[a]pyrene	ND U	0.058	ND U	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	ND U	0.095	0.01 J	ND U	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[k]fluoranthene	ND U	0.034 J	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	ND U	0.063	0.015 J	0.012 J	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	88	--	--	88	17,000	--	0.0015
Dibenz[a,h]anthracene	ND U	ND U	ND U	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	ND U	0.097	0.009 J	ND U	ND U	ND U	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	ND U	0.032 J	ND U	ND U	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	ND U	0.011 J	ND U	0.012 J	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.019 J	0.064	0.023 J	0.027 J	0.021 J	ND UJ	ND UJ	ND UJ	ND UJ	--	--	--	--	--	--	--
Pyrene	ND U	0.08	0.012 J	ND U	ND UJ	ND UJ	ND UJ	ND UJ	ND UJ	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)																
Antimony	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	6.2	6.6	6.3	5.8	7.3	11.3	13	--	--	13	--	--	13	61	--	0.05
Barium	44	47	41	44	47	1,500	--	--	--	5,500	--	--	5,500	14,000	--	2
Beryllium	0.62	0.61	0.5	0.63	0.65	22	--	--	--	160	--	--	160	410	--	0.004
Boron	13	13	9.3	13	11	40	--	--	--	16,000	--	--	16,000	41,000	--	2
Cadmium	ND U	ND U	0.058 J	ND U	ND U	5.2	--	--	--	78	--	--	78	200	--	0.005
Calcium	56,000	59,000	66,000	59,000	54,000	--	--	--	--	--	--	--	--	--	--	--
Chromium	17	18	16	17	18	21	--	--	--	230	--	--	230	690	--	0.1
Cobalt	16	14	13	13	13	20	--	--	--	4,700	--	--	4,700	12,000	--	1
Copper	26	25	24	24	23	2,900	--	--	--	2,900	--	--	2,900	8,200	--	0.65
Iron	18,000 †m	19,000 †m	17,000 †m	18,000 †m	19,000 †m	15,000	15900	--	--	--	--	--	--	--	--	5
Lead	15	26	20	13	13	107	--	--	--	400	--	--	400	700	--	0.0075
Magnesium	27,000	27,000	31,000	28,000	27,000	325,000	--	--	--	--	--	--	--	730,000	--	--
Manganese	420	350	400	360	340	630	636	--	--	1,600	--	--	1,600	4,100	--	0.15
Mercury	0.019	0.019	0.019	0.022	0.018	0.89	--	--	--	10	--	--	10	0.1	--	0.002
Nickel	35	37	35	35	36	100	--	--	--	1,600	--	--	1,600	4,100	--	0.1
Potassium	2,600	2,600	2,100	2,700	2,500	--	--	--	--	--	--	--	--	--	--	--
Selenium	ND U	ND U	ND U	ND U	ND U	1.3	--	--	--	390	--	--	390	1,000	--	0.05
Silver	ND U	ND U	ND U	ND U	ND U	4.4	--	--	--	390	--	--	390	1,000	--	0.05
Sodium	330	250	610	250	1,500	--	--	--	--	--	--	--	--	--	--	--
Thallium	ND U	0.37 J	0.36 J	0.44 J	0.53 J	2.6	--	--	--	6.3	--	--	6.3	160	--	0.002
Vanadium	18	18	16	18	18	550	--	--	--	550	--	--	550	1,400	--	0.049
Zinc	49	56	63	52	55	5,100	--	--	--	23,000	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)																
Barium	0.35 J	0.61	0.42 J	0.68	0.59	--	--	--	--	--	--	--	--	--	2	--
Boron	0.46 J	0.13 J	0.084 J	0.69	0.5	--	--	--	--	--	--	--	--	--	2	--
Cadmium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.005	--
Cobalt	0.025	0.015 J	0.02 J	0.015 J	ND U	--	--	--	--	--	--	--	--	--	1	--
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	5	--
Lead	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.0075	--
Manganese	1.9 L	2.2 L	2.2 L	1.9 L	1.4 L	--	--	--	--	--	--	--	--	--	0.15	--
Nickel	0.039	0.041	0.054	0.06	0.019 J	--	--	--	--	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	--	--	0.05	--
Zinc	0.071 J	0.095 J	ND U	0.079 J	0.057 J	--	--	--	--	--	--	--	--	--	5	--
SPLP Metals (mg/L)																
Boron	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	2	--
Cadmium	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	0.005	--
Lead	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	0.0075	--
Manganese	0.13	0.031	0.059	0.033	0.71 L	--	--	--	--	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	5	--

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)				Comparison Criteria							
	2746-01-B54				MACs			TACO				
BORING	2746-01-B54 (0-7)	2746-01-B54 (7-14)	2746-01-B54 (7-14)D	2746-01-B54 (14-20)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water	
SAMPLE	Soil	Soil	Soil	Soil								
MATRIX	Soil	Soil	Soil	Soil								
DEPTH (feet)	0-7	7-14	7-14	14-20								
pH	8.28	8.04	8.09	8.92								
VOCs (soil: mg/kg, water: mg/L)												
2-Butanone (MEK)	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Acetone	ND U	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3	
Tetrachloroethene	ND U	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005	
Trichloroethene	ND U	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005	
SVOCs (soil: mg/kg, water: mg/L)												
2-Methylnaphthalene	0.02 J	0.06 J	0.026 J	0.081	--	--	--	--	--	--	--	
Acenaphthene	ND U	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42	
Acenaphthylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Anthracene	ND U	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1	
Benzo[a]anthracene	0.0055 J	ND U	ND U	ND U	0.9	1.8	1.1	1.8	170	--	0.00013	
Benzo[a]pyrene	ND U	ND U	ND U	ND U	0.09	2.1	1.3	2.1	17	--	0.0002	
Benzo[b]fluoranthene	ND U	ND U	ND U	ND U	0.9	2.1	1.5	2.1	170	--	0.00018	
Benzo[g,h,i]perylene	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Benzo[k]fluoranthene	ND U	ND U	ND U	ND U	9	--	--	9	1,700	--	0.00017	
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006	
Butyl benzyl phthalate	ND U	ND U	ND U	ND U	930	--	--	930	930	--	1.4	
Carbazole	ND U	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--	
Chrysene	0.02 J	0.013 J	0.016 J	0.014 J	88	--	--	88	17,000	--	0.0015	
Dibenz(a,h)anthracene	ND U	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003	
Dibenzofuran	ND U	ND U	ND U	ND U	--	--	--	--	--	--	--	
Di-n-butyl phthalate	ND U	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7	
Fluoranthene	0.012 J	ND U	ND U	ND U	3,100	--	--	3,100	82,000	--	0.28	
Fluorene	ND U	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28	
Indeno[1,2,3-cd]pyrene	ND U	ND U	ND U	ND U	0.9	1.6	0.9	1.6	170	--	0.00043	
Naphthalene	0.018 J	0.025 J	0.021 J	0.027 J	1.8	--	--	170	1.8	--	0.14	
Phenanthrene	0.056	0.037 J	0.049	0.041	--	--	--	--	--	--	--	
Pyrene	0.023 J	0.0099 J	0.013 J	ND U	2,300	--	--	2,300	61,000	--	0.21	
Inorganics (soil: mg/kg, water: mg/L)												
Antimony	ND U	ND U	ND U	ND UJ	5	--	--	31	82	--	0.006	
Arsenic	5.8	6.1	6.1	5.9	11.3	13	--	13	61	--	0.05	
Barium	44	65	47	45	1,500	--	--	5,500	14,000	--	2	
Beryllium	0.65	0.64	0.7	0.7	22	--	--	160	410	--	0.004	
Boron	11	11	14	13 J	40	--	--	16,000	41,000	--	2	
Cadmium	0.056 J	ND U	0.054 J	0.053 J	5.2	--	--	78	200	--	0.005	
Calcium	62,000	63,000	64,000	65,000	--	--	--	--	--	--	--	
Chromium	18	17	17	18	21	--	--	230	690	--	0.1	
Cobalt	13	13	13	13	20	--	--	4,700	12,000	--	1	
Copper	24	24	23	24	2,900	--	--	2,900	8,200	--	0.65	
Iron	18,000 †m	18,000 †m	19,000 †m	19,000 †m	15,000	15900	--	--	--	--	5	
Lead	14	14	13	13	107	--	--	400	700	--	0.0075	
Magnesium	26,000	27,000	28,000	27,000	325,000	--	--	--	730,000	--	--	
Manganese	330	370	370	370	630	636	--	1,600	4,100	--	0.15	
Mercury	0.018	0.017 J	0.02	0.02	0.89	--	--	10	0.1	--	0.002	
Nickel	34	35	35	36	100	--	--	1,600	4,100	--	0.1	
Potassium	2,600	2,500	3,000	2,900	--	--	--	--	--	--	--	
Selenium	0.27 J	ND U	ND U	ND U	1.3	--	--	390	1,000	--	0.05	
Silver	ND U	ND U	ND U	ND U	4.4	--	--	390	1,000	--	0.05	
Sodium	1,100	530	580	400	--	--	--	--	--	--	--	
Thallium	ND U	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002	
Vanadium	20	18	20	20	550	--	--	550	1,400	--	0.049	
Zinc	55	52	60	52	5,100	--	--	23,000	61,000	--	5	
TCLP Metals (mg/L)												
Barium	0.48 J	0.72	0.7	0.68	--	--	--	--	--	2	--	
Boron	0.39 J	0.5	0.36 J	0.4 J	--	--	--	--	--	2	--	
Cadmium	ND U	ND U	ND U	ND U	--	--	--	--	--	0.005	--	
Cobalt	0.025	0.015 J	0.016 J	0.016 J	--	--	--	--	--	1	--	
Iron	ND U	0.21 J	0.22 J	ND U	--	--	--	--	--	5	--	
Lead	ND U	ND U	ND U	ND U	--	--	--	--	--	0.0075	--	
Manganese	1.9 L	2 L	2 L	2 L	--	--	--	--	--	0.15	--	
Nickel	0.04	0.043	0.047	0.044	--	--	--	--	--	0.1	--	
Selenium	ND U	0.024 J	0.021 J	ND U	--	--	--	--	--	0.05	--	
Zinc	0.45 J	0.21 J	ND U	0.2 J	--	--	--	--	--	5	--	
SPLP Metals (mg/L)												
Boron	NA	NA	NA	NA	--	--	--	--	--	2	--	
Cadmium	NA	NA	NA	NA	--	--	--	--	--	0.005	--	
Lead	NA	NA	NA	NA	--	--	--	--	--	0.0075	--	
Manganese	0.71 L	0.04	0.042	0.26 L	--	--	--	--	--	0.15	--	
Zinc	NA	NA	NA	NA	--	--	--	--	--	5	--	

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1 (IDOT ROW)			Comparison Criteria						
	2746-01-B55	2746-01-B56	2746-01-B57	MACs			TACO			
BORING	2746-01-B55 (0-8)	2746-01-B56 (0-8)	2746-01-B57 (0-6)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER	Ground-water
SAMPLE	Soil	Soil	Soil							
MATRIX	0-8	0-8	0-6							
DEPTH (feet)	8.12	7.96	8.46							
pH										
VOCs (soil: mg/kg, water: mg/L)										
2-Butanone (MEK)	ND U	ND U	ND U	--	--	--	--	--	--	--
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--	6.3
Tetrachloroethene	ND U	ND U	ND U	0.06	--	--	11	28	--	0.005
Trichloroethene	ND U	ND U	ND U	0.06	--	--	5	12	--	0.005
SVOCs (soil: mg/kg, water: mg/L)										
2-Methylnaphthalene	ND U	ND U	0.014 J	--	--	--	--	--	--	--
Acenaphthene	ND U	ND U	ND U	570	--	--	4,700	120,000	--	0.42
Acenaphthylene	ND U	ND U	ND U	--	--	--	--	--	--	--
Anthracene	ND U	ND U	ND U	12,000	--	--	23,000	610,000	--	2.1
Benzo[a]anthracene	0.027 J	0.025 J	ND U	0.9	1.8	1.1	1.8	170	--	0.0013
Benzo[a]pyrene	0.037 J	0.03 J	ND U	0.09	2.1	1.3	2.1	17	--	0.0002
Benzo[b]fluoranthene	0.065	0.046	ND U	0.9	2.1	1.5	2.1	170	--	0.00018
Benzo[g,h,i]perylene	0.027 J	0.017 J	ND U	--	--	--	--	--	--	--
Benzo[k]fluoranthene	0.023 J	0.018 J	ND U	9	--	--	9	1,700	--	0.00017
Bis(2-ethylhexyl) phthalate	ND U	ND U	ND U	46	--	--	46	4,100	--	0.006
Butyl benzyl phthalate	ND U	ND U	ND U	930	--	--	930	930	--	1.4
Carbazole	ND U	ND U	ND U	0.6	--	--	32	6,200	--	--
Chrysene	0.047	0.038 J	ND U	88	--	--	88	17,000	--	0.0015
Dibenz(a,h)anthracene	ND U	ND U	ND U	0.09	0.42	0.2	0.42	17	--	0.0003
Dibenzofuran	ND U	ND U	ND U	--	--	--	--	--	--	--
Di-n-butyl phthalate	ND U	ND U	ND U	2,300	--	--	2,300	2,300	--	0.7
Fluoranthene	0.062	0.044	ND U	3,100	--	--	3,100	82,000	--	0.28
Fluorene	ND U	ND U	ND U	560	--	--	3,100	82,000	--	0.28
Indeno[1,2,3-cd]pyrene	0.019 J	0.016 J	ND U	0.9	1.6	0.9	1.6	170	--	0.00043
Naphthalene	0.026 J	ND U	0.0069 J	1.8	--	--	170	1.8	--	0.14
Phenanthrene	0.063	0.037 J	0.018 J	--	--	--	--	--	--	--
Pyrene	0.063	0.045	ND U	2,300	--	--	2,300	61,000	--	0.21
Inorganics (soil: mg/kg, water: mg/L)										
Antimony	ND U	ND U	ND U	5	--	--	31	82	--	0.006
Arsenic	5.7	9.6	5.6	11.3	13	--	13	61	--	0.05
Barium	35	100	42	1,500	--	--	5,500	14,000	--	2
Beryllium	0.65	0.56	0.6	22	--	--	160	410	--	0.004
Boron	11	9.7	10	40	--	--	16,000	41,000	--	2
Cadmium	0.074 J	1.7	0.05 J	5.2	--	--	78	200	--	0.005
Calcium	77,000	63,000	79,000	--	--	--	--	--	--	--
Chromium	19	26 †	17	21	--	--	230	690	--	0.1
Cobalt	13	6.7	12	20	--	--	4,700	12,000	--	1
Copper	24	83	21	2,900	--	--	2,900	8,200	--	0.65
Iron	18,000 †m	27,000 †m	17,000 †m	15,000	15900	--	--	--	--	5
Lead	51	3,300 †rc	12	107	--	--	400	700	--	0.0075
Magnesium	27,000	28,000	36,000	325,000	--	--	--	730,000	--	--
Manganese	370	270	340	630	636	--	1,600	4,100	--	0.15
Mercury	0.022	0.023	0.024	0.89	--	--	10	0.1	--	0.002
Nickel	35	34	32	100	--	--	1,600	4,100	--	0.1
Potassium	2,600	1,200	2,400	--	--	--	--	--	--	--
Selenium	ND U	0.37 J	ND U	1.3	--	--	390	1,000	--	0.05
Silver	ND U	0.19 J	ND U	4.4	--	--	390	1,000	--	0.05
Sodium	580	600	1,500	--	--	--	--	--	--	--
Thallium	ND U	ND U	ND U	2.6	--	--	6.3	160	--	0.002
Vanadium	19	15	18	550	--	--	550	1,400	--	0.049
Zinc	56	400	48	5,100	--	--	23,000	61,000	--	5
TCLP Metals (mg/L)										
Barium	0.72	0.57	0.71	--	--	--	--	--	2	--
Boron	0.39 J	0.4 J	0.46 J	--	--	--	--	--	2	--
Cadmium	0.0096 L	0.0027 J	ND U	--	--	--	--	--	0.005	--
Cobalt	0.028	0.012 J	0.018 J	--	--	--	--	--	1	--
Iron	ND U	0.24 J	0.2 J	--	--	--	--	--	5	--
Lead	0.18 L	0.07 L	ND U	--	--	--	--	--	0.0075	--
Manganese	3.3 L	1.6 L	2.3 L	--	--	--	--	--	0.15	--
Nickel	0.046	0.045	0.041	--	--	--	--	--	0.1	--
Selenium	ND U	ND U	ND U	--	--	--	--	--	0.05	--
Zinc	0.15 J	ND U	0.43 J	--	--	--	--	--	5	--
SPLP Metals (mg/L)										
Boron	NA	NA	NA	--	--	--	--	--	2	--
Cadmium	ND U	NA	NA	--	--	--	--	--	0.005	--
Lead	0.031 L	0.01 L	NA	--	--	--	--	--	0.0075	--
Manganese	0.073	0.073	0.98 L	--	--	--	--	--	0.15	--
Zinc	NA	NA	NA	--	--	--	--	--	5	--

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1A (IDOT ROW - Interchange of I-90 and Cumberland Ave.)					Comparison Criteria					
	2746-01A-B01	2746-01A-B02	2746-01A-B03	2746-01A-B04	2746-01A-B05	MACs			TACO		
SAMPLE	2746-01A-B01 (0-8)	2746-01A-B02 (0-8)	2746-01A-B03 (0-8)	2746-01A-B04 (0-8)	2746-01A-B05 (0-8)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil	Soil	Soil						
DEPTH (feet)	0-8	0-8	0-8	0-8	0-8						
pH	7.52	8.37	8.89	8.37	7.52						
VOCs (mg/kg)											
Acetone	ND U	ND U	0.031	ND U	ND U	25	--	--	70,000	100,000	--
SVOCs (mg/kg)											
2-Methylnaphthalene	ND U	ND U	ND U	ND U	0.0097 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.019 J	ND U	ND U	570	--	--	4,700	120,000	--
Acenaphthylene	ND U	ND U	0.012 J	ND U	ND U	--	--	--	--	--	--
Anthracene	ND U	ND U	0.11	ND U	ND U	12,000	--	--	23,000	610,000	--
Benzo[a]anthracene	0.0052 J	0.0071 J	0.29	0.013 J	0.01 J	0.9	1.8	1.1	1.8	170	--
Benzo[a]pyrene	ND U	ND U	0.31 †	0.015 J	0.0092 J	0.09	2.1	1.3	2.1	17	--
Benzo[b]fluoranthene	ND U	0.013 J	0.37	0.022 J	0.016 J	0.9	2.1	1.5	2.1	170	--
Benzo[g,h,i]perylene	ND U	ND U	0.16	0.016 J	0.015 J	--	--	--	--	--	--
Benzo[k]fluoranthene	ND U	ND U	0.17	ND U	ND U	9	--	--	9	1,700	--
Chrysene	ND U	0.012 J	0.34	0.016 J	0.021 J	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.033 J	ND U	ND U	0.09	0.42	0.2	0.42	17	--
Fluoranthene	0.012 J	0.014 J	0.54	0.026 J	0.021 J	3,100	--	--	3,100	82,000	--
Fluorene	ND U	ND U	0.022 J	ND U	ND U	560	--	--	3,100	82,000	--
Indeno[1,2,3-cd]pyrene	ND U	ND U	0.17	0.016 J	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	ND U	ND U	0.012 J	ND U	ND U	1.8	--	--	170	1.8	--
Phenanthrene	0.018 J	0.0072 J	0.24	0.0075 J	0.025 J	--	--	--	--	--	--
Pyrene	0.01 J	0.014 J	0.46	0.02 J	0.021 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)											
Arsenic	8.2	4.7	5.9	12 †	6.7 J	11.3	13	--	13	61	--
Barium	72	56	86	130	68 J	1,500	--	--	5,500	14,000	--
Beryllium	0.55	0.57	0.65	0.91	0.68	22	--	--	160	410	--
Boron	6	7.3	9	4.4	9.3 J	40	--	--	16,000	41,000	--
Cadmium	0.14	0.052 J	0.041 J	0.036 J	ND U	5.2	--	--	78	200	--
Calcium	27,000	15,000	22,000	3,000	43,000 J	--	--	--	--	--	--
Chromium	16	17	16	21	18	21	--	--	230	690	--
Cobalt	14	10	12	19	13	20	--	--	4,700	12,000	--
Copper	23	16	17	26	26 J	2,900	--	--	2,900	8,200	--
Iron	18,000 †m	15,000	15,000	22,000 †m	18,000 †m	15,000	15,900	--	--	--	--
Lead	17	14	23	35	15 J	107	--	--	400	700	--
Magnesium	20,000	8,100	10,000	4,800	20,000	325,000	--	--	--	730,000	--
Manganese	710 †m	230	330	400	300	630	636	--	1,600	4,100	--
Mercury	0.032	0.03	0.035	0.036	0.022	0.89	--	--	10	0.1	--
Nickel	38	27	28	40	36	100	--	--	1,600	4,100	--
Potassium	1,400	1,500	1,800	1,900	2,900	--	--	--	--	--	--
Selenium	0.57	ND U	0.56	ND U	0.32 J	1.3	--	--	390	1,000	--
Sodium	190	270	2,300	2,000	860 J	--	--	--	--	--	--
Thallium	0.43 J	ND U	0.27 J	ND U	0.68	2.6	--	--	6.3	160	--
Vanadium	22	22	22	32	22	550	--	--	550	1,400	--
Zinc	56	48	79	81	59	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)											
Barium	0.42 J	0.6	0.78	0.43 J	0.16 J	--	--	--	--	--	2
Boron	ND UR	ND U	0.098 J	0.088 J	0.074 J	--	--	--	--	--	2
Cadmium	ND U	ND U	ND U	0.0022 J	ND U	--	--	--	--	--	0.005
Cobalt	ND U	ND U	ND U	ND U	0.014 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	ND U	ND U	--	--	--	--	--	5
Lead	ND U	ND U	0.0084 L	0.016 L	ND U	--	--	--	--	--	0.0075
Manganese	2 L	0.23 L	4.6 L	0.84 L	2.2 L	--	--	--	--	--	0.15
Nickel	ND U	ND U	ND U	ND U	0.026	--	--	--	--	--	0.1
Zinc	ND U	ND U	0.028 J	ND U	ND U	--	--	--	--	--	5
SPLP Metals (mg/L)											
Lead	NA	NA	0.08 L	0.2 L	NA	--	--	--	--	--	0.0075
Manganese	ND U	0.19 L	0.63 L	0.33 L	0.017 J	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-1B (IDOT ROW - Intersection of I-90 and Canfield Ave.)			Comparison Criteria					
	2746-01B-B01		2746-01B-B02	MACs			TACO		
BORING	2746-01B-B01 (0-8)		2746-01B-B02 (0-3)	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-01B-B01 (0-8)	2746-01B-B01 (0-8)D	2746-01B-B02 (0-3)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-8	0-8	0-3						
pH	8.59	8.41	11 #						
VOCs (mg/kg)									
Acetone	ND U	ND U	0.017	25	--	--	70,000	100,000	--
SVOCs (mg/kg)									
2-Methylnaphthalene	0.13	0.13	0.17 J	--	--	--	--	--	--
Acenaphthene	ND U	ND U	0.046 J	570	--	--	4,700	120,000	--
Anthracene	ND U	ND U	0.094 J	12,000	--	--	23,000	610,000	--
Benzo[a]anthracene	ND U	0.021 J	0.33	0.9	1.8	1.1	1.8	170	--
Benzo[a]pyrene	ND U	ND U	0.36 †	0.09	2.1	1.3	2.1	17	--
Benzo[b]fluoranthene	ND U	ND U	0.59	0.9	2.1	1.5	2.1	170	--
Benzo[g,h,i]perylene	0.034 J	0.034 J	0.29	--	--	--	--	--	--
Benzo[k]fluoranthene	ND U	ND U	0.22	9	--	--	9	1,700	--
Chrysene	0.04	0.058	0.53	88	--	--	88	17,000	--
Dibenz(a,h)anthracene	ND U	ND U	0.1 J †	0.09	0.42	0.2	0.42	17	--
Fluoranthene	ND U	0.039	0.62	3,100	--	--	3,100	82,000	--
Fluorene	0.0072 J	0.0074 J	0.07 J	560	--	--	3,100	82,000	--
Indeno[1,2,3-cd]pyrene	ND U	ND U	0.22	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.044	0.047	0.061 J	1.8	--	--	170	1.8	--
Phenanthrene	0.088	0.098	0.65	--	--	--	--	--	--
Pyrene	0.052 J	0.13 J	1.4 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Antimony	ND U	ND U	0.19 J	5	--	--	31	82	--
Arsenic	5	6.1	1.8	11.3	13	--	13	61	--
Barium	46	44	11 J	1,500	--	--	5,500	14,000	--
Beryllium	0.59	0.61	0.15 J	22	--	--	160	410	--
Boron	14	14	11	40	--	--	16,000	41,000	--
Cadmium	ND U	ND U	0.035 J	5.2	--	--	78	200	--
Calcium	58,000	62,000	170,000	--	--	--	--	--	--
Chromium	16	16	5.5 J	21	--	--	230	690	--
Cobalt	12	14	1.4 J	20	--	--	4,700	12,000	--
Copper	22	24	5.1 J	2,900	--	--	2,900	8,200	--
Iron	16,000 †m	17,000 †m	3,600 J	15,000	15,900	--	--	--	--
Lead	12	13	3.9 J	107	--	--	400	700	--
Magnesium	26,000	29,000	99,000	325,000	--	--	--	730,000	--
Manganese	310	310	160 J	630	636	--	1,600	4,100	--
Mercury	ND U	0.015 J	ND U	0.89	--	--	10	0.1	--
Nickel	32	35	6.1 J	100	--	--	1,600	4,100	--
Potassium	2,600	2,600	520 J	--	--	--	--	--	--
Selenium	0.36 J	ND U	ND U	1.3	--	--	390	1,000	--
Sodium	590	830	580 J	--	--	--	--	--	--
Thallium	0.41 J	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	19	18	12	550	--	--	550	1,400	--
Zinc	49	52	15 J	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.52	0.44 J	0.18 J	--	--	--	--	--	2
Boron	0.086 J	0.081 J	0.082 J	--	--	--	--	--	2
Cobalt	0.01 J	0.011 J	ND U	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	1.6 L	1.9 L	0.36 L	--	--	--	--	--	0.15
Nickel	0.023 J	0.023 J	0.011 J	--	--	--	--	--	0.1
SPLP Metals (mg/L)									
Manganese	0.34 L	0.34 L	ND U	--	--	--	--	--	0.15

CONTAMINANTS OF CONCERN

SITE	ISGS #2746-2 (Chicago Transit Authority Tracks)			Comparison Criteria					
	2746-02-B01			MACs			TACO		
BORING	2746-02-B01			Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-02-B01 (0-6)	2746-02-B01 (6-12)	2746-02-B01 (12-18)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-6	6-12	12-18						
pH	8.01	8.13	8.27						
VOCs (None Detected)									
SVOCs (mg/kg)									
2-Methylnaphthalene	ND U	ND U	0.03 J	--	--	--	--	--	--
Benzo[a]anthracene	0.021 J	0.0058 J	0.0067 J	0.9	1.8	1.1	1.8	170	--
Benzo[a]pyrene	0.029 J	ND U	ND U	0.09	2.1	1.3	2.1	17	--
Benzo[b]fluoranthene	0.059	ND U	ND U	0.9	2.1	1.5	2.1	170	--
Benzo[g,h,i]perylene	0.019 J	ND U	ND U	--	--	--	--	--	--
Benzo[k]fluoranthene	0.022 J	ND U	ND U	9	--	--	9	1,700	--
Chrysene	0.038 J	0.011 J	ND U	88	--	--	88	17,000	--
Fluoranthene	0.052	ND U	ND U	3,100	--	--	3,100	82,000	--
Indeno[1,2,3-cd]pyrene	0.018 J	ND U	ND U	0.9	1.6	0.9	1.6	170	--
Naphthalene	0.0076 J	ND U	0.02 J	1.8	--	--	170	1.8	--
Phenanthrene	0.044	0.032 J	0.048	--	--	--	--	--	--
Pyrene	0.043	ND U	0.0086 J	2,300	--	--	2,300	61,000	--
Inorganics (mg/kg)									
Arsenic	7.7	6.5	14 †mr	11.3	13	--	13	61	--
Barium	65	46	27	1,500	--	--	5,500	14,000	--
Beryllium	0.7	0.65	0.46	22	--	--	160	410	--
Boron	11	12	9.7	40	--	--	16,000	41,000	--
Cadmium	0.3	ND U	ND U	5.2	--	--	78	200	--
Calcium	46,000	59,000	74,000	--	--	--	--	--	--
Chromium	24 †	17	11	21	--	--	230	690	--
Cobalt	14	14	14	20	--	--	4,700	12,000	--
Copper	36	23	32	2,900	--	--	2,900	8,200	--
Iron	20,000 †m	18,000 †m	21,000 †m	15,000	15,900	--	--	--	--
Lead	63	13	19	107	--	--	400	700	--
Magnesium	21,000	28,000	37,000	325,000	--	--	--	730,000	--
Manganese	390	350	530	630	636	--	1,600	4,100	--
Mercury	0.019 J	0.018 J	0.019	0.89	--	--	10	0.1	--
Nickel	37	36	36	100	--	--	1,600	4,100	--
Potassium	2,500	2,500	1,700	--	--	--	--	--	--
Sodium	820	260	220	--	--	--	--	--	--
Thallium	0.78	0.49 J	0.87	2.6	--	--	6.3	160	--
Vanadium	20	17	12	550	--	--	550	1,400	--
Zinc	99	52	55	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)									
Barium	0.43 J	0.5	0.56	--	--	--	--	--	2
Boron	0.13 J	0.61	0.55	--	--	--	--	--	2
Chromium	ND U	ND U	ND U	--	--	--	--	--	0.1
Cobalt	0.013 J	0.015 J	0.015 J	--	--	--	--	--	1
Iron	ND U	ND U	ND U	--	--	--	--	--	5
Manganese	1.8 L	1.8 L	1.6 L	--	--	--	--	--	0.15
Nickel	0.022 J	0.045	0.039	--	--	--	--	--	0.1
Zinc	0.12 J	0.13 J	0.038 J	--	--	--	--	--	5
SPLP Metals (mg/L)									
Manganese	0.42 L	0.06	0.21 L	--	--	--	--	--	0.15

PTB #176-001; IDOT Job #D-91-339-15; Project #P-91-128-12 - Contract 60Y39; WorkOrder #05A
CONTAMINANTS OF CONCERN

SITE	ISGS #2746-61 (IDOT ROW)	Comparison Criteria					
		MACs			TACO		
BORING	2746-61-B01	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	2746-61-B01 (0-5)						
MATRIX	Soil						
DEPTH (feet)	0-5						
pH	8.71						
VOCs (None Detected)							
SVOCs (None Detected)							
Inorganics (mg/kg)							
Arsenic	2.2	11.3	13	--	13	61	--
Barium	8.3	1,500	--	--	5,500	14,000	--
Beryllium	0.096 J	22	--	--	160	410	--
Boron	4	40	--	--	16,000	41,000	--
Calcium	120,000	--	--	--	--	--	--
Cobalt	2.3	20	--	--	4,700	12,000	--
Copper	7.3	2,900	--	--	2,900	8,200	--
Iron	5,500	15,000	15,900	--	--	--	--
Lead	3.1	107	--	--	400	700	--
Magnesium	45,000	325,000	--	--	--	730,000	--
Manganese	190	630	636	--	1,600	4,100	--
Nickel	6.6	100	--	--	1,600	4,100	--
Potassium	470	--	--	--	--	--	--
Sodium	330	--	--	--	--	--	--
Vanadium	7.8	550	--	--	550	1,400	--
Zinc	20	5,100	--	--	23,000	61,000	--
TCLP Metals (mg/L)							
Barium	0.14 J	--	--	--	--	--	2
Manganese	1.1 L	--	--	--	--	--	0.15
SPLP Metals (mg/L)							
Manganese	0.027	--	--	--	--	--	0.15

D

Laboratory Data Package and Site Photographs

The following samples in the attached data packages are applicable to the investigation for Contract 60Y39

Sample ID	Lab Data Package
2746-00-TB01	500-107297-1
2746-01-B01 (0-5)	500-107297-1
2746-01-B01 (5-10)	500-107297-1
2746-01-B02 (0-8)	500-107297-1
2746-01-B02 (8-15)	500-107297-1
2746-01-B03 (0-8)	500-107297-1
2746-01-B03 (8-12)	500-107297-1
2746-01-G03	500-107297-1
2746-01-B04 (0-8)	500-107297-1
2746-01-B04 (8-17)	500-107297-1
2746-01-B05 (0-8)	500-107556-1
2746-01-B05 (16-24)	500-107556-1
2746-01-B05 (24-30)	500-107556-1
2746-01-B05 (8-16)	500-107556-1
2746-01-B06 (0-8)	500-107556-1
2746-01-B06 (8-16)	500-107556-1
2746-01-B07 (0-8)	500-107556-1
2746-01-B07 (0-8)D	500-107556-1
2746-01-B07 (16-24)	500-107556-1
2746-01-B07 (24-30)	500-107556-1
2746-01-B07 (8-16)	500-107556-1
2746-01-B08 (0-7)	500-107556-1
2746-01-B08 (7-14)	500-107556-1
2746-01-B09 (0-8)	500-107556-1
2746-01-B09 (16-24)	500-107556-1
2746-01-B09 (24-30)	500-107556-1
2746-01-B09 (8-16)	500-107556-1
2746-01-B10 (0-6)	500-107588-1
2746-01-B10 (6-11)	500-107588-1
2746-01-B11 (0-7)	500-107588-1
2746-01-B11 (14-20)	500-107588-1
2746-01-B11 (7-14)	500-107588-1
2746-01-B12 (0-8)	500-107588-1
2746-01-B12 (16-24)	500-107588-1
2746-01-B12 (24-30)	500-107588-1
2746-01-B12 (8-16)	500-107588-1
2746-01-B13 (0-8)	500-107588-1
2746-01-B13 (8-15)	500-107588-1
2746-01-B14 (0-8)	500-107508-1
2746-01-B14 (16-24)	500-107508-1
2746-01-B14 (24-30)	500-107508-1
2746-01-B14 (8-16)	500-107508-1
2746-01-B15 (0-8)	500-107508-1
2746-01-B15 (8-17)	500-107508-1

The following samples in the attached data packages are applicable to the investigation for Contract 60Y39

Sample ID	Lab Data Package
2746-01-B16 (0-8)	500-107508-1
2746-01-B16 (16-24)	500-107508-1
2746-01-B16 (24-30)	500-107508-1
2746-01-B16 (8-16)	500-107508-1
2746-01-B17 (0-8)	500-107508-1
2746-01-B17 (8-16)	500-107508-1
2746-01-B18 (0-8)	500-107508-1
2746-01-B18 (16-24)	500-107508-1
2746-01-B18 (24-30)	500-107508-1
2746-01-B18 (24-30)D	500-107508-1
2746-01-B18 (8-16)	500-107508-1
2746-01-B19 (0-2)	500-107244-1
2746-01-B20 (0-7)	500-107457-1
2746-01-B20 (14-20)	500-107457-1
2746-01-B20 (7-14)	500-107457-1
2746-01-B21 (0-7)	500-107457-1
2746-01-B21 (7-14)	500-107457-1
2746-01-B22 (0-2)	500-107244-1
2746-01-B23 (0-2)	500-107244-1
2746-01-B24 (0-5)	500-107399-1
2746-01-B25 (0-7)	500-107399-1
2746-01-B25 (14-20)	500-107399-1
2746-01-B25 (7-14)	500-107399-1
2746-01-B26 (0-8)	500-107399-1
2746-01-B26 (0-8)D	500-107399-1
2746-01-B27 (0-8)	500-107399-1
2746-01-B28 (0-8)	500-107399-1
2746-01-B29 (0-7)	500-107399-1
2746-01-B29 (14-20)	500-107399-1
2746-01-B29 (7-14)	500-107399-1
2746-01-B30 (0-8)	500-107399-1
2746-01-B31 (0-8)	500-107399-1
2746-01-B32 (0-8)	500-107399-1
2746-01-B33 (0-8)	500-107399-1
2746-01-B34 (0-8)	500-107399-1
2746-01-B35 (0-8)	500-107399-1
2746-01-B36 (0-8)	500-107399-1
2746-01-B37 (0-8)	500-107297-1
2746-01-B38 (0-8)	500-107457-1
2746-01-B39 (0-8)	500-107457-1
2746-01-B40 (0-8)	500-107457-1
2746-01-B41 (0-5)	500-107457-1
2746-01-B41 (5-10)	500-107457-1
2746-01-B42 (0-6)	500-107457-1
2746-01-B42 (6-11)	500-107457-1
2746-01-B43 (0-7)	500-107244-1
2746-01-B43 (7-14)	500-107244-1
2746-01-B44 (0-7)	500-107244-1
2746-01-B44 (7-14)	500-107244-1

The following samples in the attached data packages are applicable to the investigation for Contract 60Y39

Sample ID	Lab Data Package
2746-01-B45 (0-7)	500-107244-1
2746-01-B45 (7-14)	500-107244-1
2746-01-B46 (0-5)	500-107244-1
2746-01-B46 (5-10)	500-107244-1
2746-01-B47 (0-7)	500-107244-1
2746-01-B47 (7-13)	500-107244-1
2746-01-B48 (0-7)	500-107244-1
2746-01-B48 (7-13)	500-107244-1
2746-01-B49 (0-6.5)	500-107010-1
2746-01-B49 (6.5-13)	500-107010-1
2746-01-B49 (6.5-13)D	500-107010-1
2746-01-B50 (0-6.5)	500-107010-1
2746-01-B50 (6.5-13)	500-107010-1
2746-01-B51 (0-7)	500-107010-1
2746-01-B51 (7-14)	500-107010-1
2746-01-B52 (0-6)	500-107010-1
2746-01-B52 (6-12)	500-107010-1
2746-01-B53 (0-7)	500-107010-1
2746-01-B54 (0-7)	500-106984-1
2746-01-B54 (14-20)	500-106984-1
2746-01-B54 (7-14)	500-106984-1
2746-01-B54 (7-14)D	500-106984-1
2746-01-B55 (0-8)	500-106984-1
2746-01-B56 (0-8)	500-106984-1
2746-01-B57 (0-6)	500-106984-1
2746-01A-B01 (0-8)	500-107399-1
2746-01A-B02 (0-8)	500-107399-1
2746-01A-B03 (0-8)	500-107169-1
2746-01A-B04 (0-8)	500-107169-1
2746-01A-B05 (0-8)	500-107169-1
2746-01B-B01 (0-8)	500-107457-1
2746-01B-B01 (0-8)D	500-107457-1
2746-01B-B02 (0-3)	500-107457-1
2746-02-B01 (0-6)	500-107010-1
2746-02-B01 (12-18)	500-107010-1
2746-02-B01 (6-12)	500-107010-1
2746-61-B01 (0-5)	500-107244-1

DATA REVIEW MEMORANDUM

DATE: February 26, 2016

TO: Dean Tiebout, Project Manager, E & E, Chicago

FROM: Joanna Christopher, Chemist, E & E, Buffalo
Lynne Parker, Chemist, E & E, Buffalo

SUBJ: Data Review – IDOT – Interstate 90 – WO 005

REFERENCE:

Project ID	Lab Work Order
IDOT - Interstate 90 - WO 005	500-106984-1
IDOT - Interstate 90 - WO 005	500-107010-1
IDOT - Interstate 90 - WO 005	500-107086-1
IDOT - Interstate 90 - WO 005	500-107169-1
IDOT - Interstate 90 - WO 005	500-107169-2
IDOT - Interstate 90 - WO 005	500-107244-1
IDOT - Interstate 90 - WO 005	500-107297-1
IDOT - Interstate 90 - WO 005	500-107391-1
IDOT - Interstate 90 - WO 005	500-107399-1
IDOT - Interstate 90 - WO 005	500-107457-1
IDOT - Interstate 90 - WO 005	500-107508-1
IDOT - Interstate 90 - WO 005	500-107556-1
IDOT - Interstate 90 - WO 005	500-107588-1

I. SAMPLE IDENTIFICATION

For the sampling activities for the IDOT - Interstate 90 – WO 005 project, Ecology and Environment, Inc. (E & E) collected the samples listed on Table 1. The samples were analyzed for the methods listed below. Matrix spike/matrix spike duplicates (MS/MSD) were not designated in the field. Samples noted as MS/MSD on Table 1 are provided as batch quality control (QC) MS/MSD. All samples were sent to TestAmerica Laboratory – Chicago, IL for analysis. All other tables are included at the end of this memorandum.

Data were reviewed for field and laboratory precision, accuracy, and completeness in accordance with procedures and quality control (QC) limits. Laboratory data qualifiers for compound identification and quantitation were accepted. Any additional data review qualifiers added are noted below and listed on the tables at the end of this memorandum. Definitions of all data qualifiers are given in the report.

Table 1 Sample Listing

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-106984-1	Solid	2746-01-B92 (0-5)	500-106984-1	1/29/2016	MS/MSD		None
500-106984-1	Solid	2746-01-B57 (0-6)	500-106984-10	1/29/2016			None
500-106984-1	Solid	2746-01-B56 (0-8)	500-106984-11	1/29/2016			None
500-106984-1	Solid	2746-01-B55 (0-8)	500-106984-12	1/29/2016			None
500-106984-1	Solid	2746-01-B54 (0-7)	500-106984-13	1/29/2016			None
500-106984-1	Solid	2746-01-B54 (7-14)	500-106984-14	1/29/2016			None
500-106984-1	Solid	2746-01-B54 (7-14)D	500-106984-15	1/29/2016			None
500-106984-1	Solid	2746-01-B54 (14-20)	500-106984-16	1/29/2016	MS/MSD		None
500-106984-1	Solid	2746-01-B92 (5-10)	500-106984-2	1/29/2016	MS/MSD		None
500-106984-1	Solid	2746-01-B93 (0-5)	500-106984-3	1/29/2016	MS/MSD		None
500-106984-1	Solid	2746-01-B93 (5-10)	500-106984-4	1/29/2016			None
500-106984-1	Solid	2746-01-B94 (0-8)	500-106984-5	1/29/2016			None
500-106984-1	Solid	2746-01-B111 (0-8)	500-106984-6	1/29/2016			None
500-106984-1	Solid	2746-01-B112 (0-8)	500-106984-7	1/29/2016			None
500-106984-1	Solid	2746-01-B110 (0-8)	500-106984-8	1/29/2016			None
500-106984-1	Solid	2746-01-B109 (0-8)	500-106984-9	1/29/2016			None
500-107010-1	Solid	2746-01-B53 (0-7)	500-107010-1	2/1/2016	MS/MSD		None
500-107010-1	Solid	2746-01-B49 (6.5-13)D	500-107010-10	2/1/2016			None
500-107010-1	Solid	2746-02-B01 (0-6)	500-107010-11	2/1/2016			None
500-107010-1	Solid	2746-02-B01 (6-12)	500-107010-12	2/1/2016			None
500-107010-1	Solid	2746-02-B01 (12-18)	500-107010-13	2/1/2016			None
500-107010-1	Solid	2746-01-B61 (0-6)	500-107010-14	2/1/2016			None
500-107010-1	Solid	2746-01-B62 (0-7)	500-107010-15	2/1/2016			None
500-107010-1	Solid	2746-01-B62 (7-14)	500-107010-16	2/1/2016			None
500-107010-1	Solid	2746-01-B62 (14-20)	500-107010-17	2/1/2016			None
500-107010-1	Solid	2746-01-B63 (0-8)	500-107010-18	2/1/2016			None
500-107010-1	Solid	2746-01-B64 (0-8)	500-107010-19	2/1/2016			None
500-107010-1	Solid	2746-01-B52 (0-6)	500-107010-2	2/1/2016	MS/MSD		None
500-107010-1	Solid	2746-01-B66 (0-8)	500-107010-20	2/1/2016			None
500-107010-1	Solid	2746-01-B52 (6-12)	500-107010-3	2/1/2016			None
500-107010-1	Solid	2746-01-B51 (0-7)	500-107010-4	2/1/2016			None
500-107010-1	Solid	2746-01-B51 (7-14)	500-107010-5	2/1/2016	MS/MSD		None
500-107010-1	Solid	2746-01-B50 (0-6.5)	500-107010-6	2/1/2016	MS/MSD		None
500-107010-1	Solid	2746-01-B50 (6.5-13)	500-107010-7	2/1/2016			None
500-107010-1	Solid	2746-01-B49 (0-6.5)	500-107010-8	2/1/2016			None
500-107010-1	Solid	2746-01-B49 (6.5-13)	500-107010-9	2/1/2016			None
500-107086-1	Solid	2746-01-B69 (0-2)	500-107086-1	2/2/2016	MS/MSD		None
500-107086-1	Solid	2746-01-B74 (0-8)	500-107086-10	2/2/2016			None
500-107086-1	Solid	2746-18-B01 (0-8)	500-107086-11	2/2/2016			None
500-107086-1	Solid	2746-18-B01 (0-8)D	500-107086-12	2/2/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-107086-1	Solid	2746-01-B75 (0-8)	500-107086-13	2/2/2016	MS/MSD		None
500-107086-1	Solid	2746-01-B70 (0-2)	500-107086-2	2/2/2016	MS/MSD		None
500-107086-1	Solid	2746-01-B71 (0-8)	500-107086-3	2/2/2016			None
500-107086-1	Solid	2746-01-B72 (0-8)	500-107086-4	2/2/2016			None
500-107086-1	Solid	2746-01-B73 (0-8)	500-107086-5	2/2/2016	MS/MSD		None
500-107086-1	Solid	2746-01-B65 (0-8)	500-107086-6	2/2/2016			None
500-107086-1	Solid	2746-01-B67 (0-8)	500-107086-7	2/2/2016			None
500-107086-1	Solid	2746-01-B68 (0-5)	500-107086-8	2/2/2016			None
500-107086-1	Solid	2746-01-B68 (5-10)	500-107086-9	2/2/2016			None
500-107169-1	Solid	2746-01A-B05 (0-8)	500-107169-1	2/3/2016	MS/MSD		None
500-107169-1	Solid	2746-01A-B04 (0-8)	500-107169-2	2/3/2016	MS/MSD		None
500-107169-1	Solid	2746-01A-B03 (0-8)	500-107169-3	2/3/2016			None
500-107169-2	Solid	2746-01-B82 (0-8)	500-107169-10	2/3/2016			None
500-107169-2	Solid	2746-01-B83 (0-8)	500-107169-11	2/3/2016			None
500-107169-2	Solid	2746-01-B84 (0-6)	500-107169-12	2/3/2016			None
500-107169-2	Solid	2746-01-B84 (6-12)	500-107169-13	2/3/2016			None
500-107169-2	Solid	2746-01-B84 (12-18)	500-107169-14	2/3/2016			None
500-107169-2	Solid	2746-01-B84 (12-18)D	500-107169-15	2/3/2016			None
500-107169-2	Solid	2746-01-B85 (0-8)	500-107169-16	2/3/2016			None
500-107169-2	Solid	2746-01-B85 (8-16)	500-107169-17	2/3/2016			None
500-107169-2	Solid	2746-01-B86 (0-6)	500-107169-18	2/3/2016			None
500-107169-2	Solid	2746-01-B86 (6-12)	500-107169-19	2/3/2016			None
500-107169-2	Solid	2746-01-B76 (0-8)	500-107169-4	2/3/2016			None
500-107169-2	Solid	2746-01-B77 (0-8)	500-107169-5	2/3/2016			None
500-107169-2	Solid	2746-01-B78 (0-8)	500-107169-6	2/3/2016			None
500-107169-2	Solid	2746-01-B79 (0-8)	500-107169-7	2/3/2016			None
500-107169-2	Solid	2746-01-B80 (0-8)	500-107169-8	2/3/2016			None
500-107169-2	Solid	2746-01-B81 (0-8)	500-107169-9	2/3/2016			None
500-107244-1	Solid	2746-01-B87 (0-7)	500-107244-1	2/4/2016	MS/MSD		None
500-107244-1	Solid	2746-01-B45 (0-7)	500-107244-10	2/4/2016			None
500-107244-1	Solid	2746-01-B45 (7-14)	500-107244-11	2/4/2016			None
500-107244-1	Solid	2746-01-B44 (0-7)	500-107244-12	2/4/2016			None
500-107244-1	Solid	2746-01-B44 (7-14)	500-107244-13	2/4/2016			None
500-107244-1	Solid	2746-01-B43 (0-7)	500-107244-14	2/4/2016			None
500-107244-1	Solid	2746-01-B43 (7-14)	500-107244-15	2/4/2016			None
500-107244-1	Solid	2746-01-B23 (0-2)	500-107244-16	2/4/2016			None
500-107244-1	Solid	2746-01-B19 (0-2)	500-107244-17	2/4/2016			None
500-107244-1	Solid	2746-01-B22 (0-2)	500-107244-18	2/4/2016			None
500-107244-1	Solid	2746-61-B01 (0-5)	500-107244-19	2/4/2016	MS/MSD		None
500-107244-1	Solid	2746-01-B87 (7-14)	500-107244-2	2/4/2016	MS/MSD		None
500-107244-1	Solid	2746-01-B87 (14-20)	500-107244-3	2/4/2016			None
500-107244-1	Solid	2746-01-B48 (0-7)	500-107244-4	2/4/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/MSD	ID Corrections
500-107244-1	Solid	2746-01-B48 (7-13)	500-107244-5	2/4/2016			None
500-107244-1	Solid	2746-01-B47 (0-7)	500-107244-6	2/4/2016			None
500-107244-1	Solid	2746-01-B47 (7-13)	500-107244-7	2/4/2016			None
500-107244-1	Solid	2746-01-B46 (0-5)	500-107244-8	2/4/2016			None
500-107244-1	Solid	2746-01-B46 (5-10)	500-107244-9	2/4/2016			None
500-107297-1	Solid	2746-02-B02 (0-7)	500-107297-1	2/5/2016	MS/MSD		None
500-107297-1	Solid	2746-01-B60 (0-7)	500-107297-10	2/5/2016			None
500-107297-1	Solid	2746-01-B60 (7-14)	500-107297-11	2/5/2016			None
500-107297-1	Solid	2746-01-B60 (14-20)	500-107297-12	2/5/2016			None
500-107297-1	Solid	2746-01-B04 (0-8)	500-107297-13	2/5/2016			None
500-107297-1	Solid	2746-01-B04 (8-17)	500-107297-14	2/5/2016			None
500-107297-1	Solid	2746-01-B03 (0-8)	500-107297-15	2/5/2016			None
500-107297-1	Solid	2746-01-B03 (8-12)	500-107297-16	2/5/2016			None
500-107297-1	Solid	2746-01-B02 (0-8)	500-107297-17	2/5/2016			None
500-107297-1	Solid	2746-01-B02 (8-15)	500-107297-18	2/5/2016			None
500-107297-1	Solid	2746-01-B01 (0-5)	500-107297-19	2/5/2016			None
500-107297-1	Solid	2746-02-B02 (7-13)	500-107297-2	2/5/2016	MS/MSD		None
500-107297-1	Solid	2746-01-B01 (5-10)	500-107297-20	2/5/2016			None
500-107297-1	Water	2746-01-G03	500-107297-21	2/5/2016	MS/MSD		None
500-107297-1	Water	2746-00-TB01	500-107297-22	2/5/2016			None
500-107297-1	Solid	2746-01-B37 (0-8)	500-107297-23	2/5/2016	MS/MSD		None
500-107297-1	Solid	2746-02-B02 (13-19)	500-107297-3	2/5/2016			None
500-107297-1	Solid	2746-01-B58 (0-8)	500-107297-4	2/5/2016	MS/MSD		None
500-107297-1	Solid	2746-01-B58 (8-16)	500-107297-5	2/5/2016			None
500-107297-1	Solid	2746-01-B59 (0-7)	500-107297-6	2/5/2016			None
500-107297-1	Solid	2746-01-B59 (0-7)D	500-107297-7	2/5/2016			None
500-107297-1	Solid	2746-01-B59 (7-14)	500-107297-8	2/5/2016			None
500-107297-1	Solid	2746-01-B59 (14-20)	500-107297-9	2/5/2016			None
500-107391-1	Solid	2746-01B-B03 (0-7)	500-107391-1	2/8/2016	MS/MSD		None
500-107391-1	Solid	2746-01-B96 (0-8)	500-107391-10	2/8/2016			None
500-107391-1	Solid	2746-01-B97 (0-8)	500-107391-11	2/8/2016			None
500-107391-1	Solid	2746-01B-B03 (7-14)	500-107391-2	2/8/2016	MS/MSD		None
500-107391-1	Solid	2746-01B-B03 (14-20)	500-107391-3	2/8/2016			None
500-107391-1	Solid	2746-01B-B04 (0-8)	500-107391-4	2/8/2016			None
500-107391-1	Solid	2746-01-B88 (0-8)	500-107391-5	2/8/2016			None
500-107391-1	Solid	2746-01-B89 (0-8)	500-107391-6	2/8/2016			None
500-107391-1	Solid	2746-01-B90 (0-8)	500-107391-7	2/8/2016			None
500-107391-1	Solid	2746-01-B91 (0-8)	500-107391-8	2/8/2016			None
500-107391-1	Solid	2746-01-B95 (0-8)	500-107391-9	2/8/2016			None
500-107399-1	Solid	2746-01-B36 (0-8)	500-107399-1	2/9/2016	MS/MSD		None
500-107399-1	Solid	2746-01-B29 (14-20)	500-107399-10	2/9/2016			None
500-107399-1	Solid	2746-01-B28 (0-8)	500-107399-11	2/9/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-107399-1	Solid	2746-01-B27 (0-8)	500-107399-12	2/9/2016			None
500-107399-1	Solid	2746-01-B26 (0-8)	500-107399-13	2/9/2016			None
500-107399-1	Solid	2746-01-B26 (0-8)D	500-107399-14	2/9/2016			None
500-107399-1	Solid	2746-01-B24 (0-5)	500-107399-15	2/9/2016			None
500-107399-1	Solid	2746-01-B25 (0-7)	500-107399-16	2/9/2016			None
500-107399-1	Solid	2746-01-B25 (7-14)	500-107399-17	2/9/2016	MS/MSD		None
500-107399-1	Solid	2746-01-B25 (14-20)	500-107399-18	2/9/2016			None
500-107399-1	Solid	2746-01A-B02 (0-8)	500-107399-19	2/9/2016			None
500-107399-1	Solid	2746-01-B35 (0-8)	500-107399-2	2/9/2016	MS/MSD		None
500-107399-1	Solid	2746-01A-B01 (0-8)	500-107399-20	2/9/2016	MS/MSD		None
500-107399-1	Solid	2746-01-B98 (0-8)	500-107399-21	2/9/2016	MS/MSD		None
500-107399-1	Solid	2746-01-B99 (0-8)	500-107399-22	2/9/2016	MS/MSD		None
500-107399-1	Solid	2746-01-B100 (0-8)	500-107399-23	2/9/2016			None
500-107399-1	Solid	2746-01-B100 (0-8)D	500-107399-24	2/9/2016			None
500-107399-1	Solid	2746-01-B101 (0-8)	500-107399-25	2/9/2016			None
500-107399-1	Solid	2746-01-B102 (0-8)	500-107399-26	2/9/2016			None
500-107399-1	Solid	2746-01-B103 (0-8)	500-107399-27	2/9/2016			None
500-107399-1	Solid	2746-01-B104 (0-8)	500-107399-28	2/9/2016			None
500-107399-1	Solid	2746-01-B105 (0-8)	500-107399-29	2/9/2016			None
500-107399-1	Solid	2746-01-B34 (0-8)	500-107399-3	2/9/2016			None
500-107399-1	Solid	2746-01-B108 (0-8)	500-107399-30	2/9/2016			None
500-107399-1	Solid	2746-01-B107 (0-8)	500-107399-31	2/9/2016			None
500-107399-1	Solid	2746-01-B106 (0-8)	500-107399-32	2/9/2016			None
500-107399-1	Solid	2746-01-B33 (0-8)	500-107399-4	2/9/2016			None
500-107399-1	Solid	2746-01-B32 (0-8)	500-107399-5	2/9/2016			None
500-107399-1	Solid	2746-01-B31 (0-8)	500-107399-6	2/9/2016			None
500-107399-1	Solid	2746-01-B30 (0-8)	500-107399-7	2/9/2016			None
500-107399-1	Solid	2746-01-B29 (0-7)	500-107399-8	2/9/2016			None
500-107399-1	Solid	2746-01-B29 (7-14)	500-107399-9	2/9/2016			None
500-107457-1	Solid	2746-01B-B02 (0-3)	500-107457-1	2/10/2016	MS/MSD		None
500-107457-1	Solid	2746-01-B38 (0-8)	500-107457-10	2/10/2016			None
500-107457-1	Solid	2746-01-B21 (0-7)	500-107457-11	2/10/2016			None
500-107457-1	Solid	2746-01-B21 (7-14)	500-107457-12	2/10/2016			None
500-107457-1	Solid	2746-01-B20 (0-7)	500-107457-13	2/10/2016			None
500-107457-1	Solid	2746-01-B20 (7-14)	500-107457-14	2/10/2016			None
500-107457-1	Solid	2746-01-B20 (14-20)	500-107457-15	2/10/2016			None
500-107457-1	Solid	2746-01B-B01 (0-8)	500-107457-2	2/10/2016	MS/MSD		None
500-107457-1	Solid	2746-01B-B01 (0-8)D	500-107457-3	2/10/2016			None
500-107457-1	Solid	2746-01-B42 (0-6)	500-107457-4	2/10/2016			None
500-107457-1	Solid	2746-01-B42 (6-11)	500-107457-5	2/10/2016			None
500-107457-1	Solid	2746-01-B41 (0-5)	500-107457-6	2/10/2016			None
500-107457-1	Solid	2746-01-B41 (5-10)	500-107457-7	2/10/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-107457-1	Solid	2746-01-B40 (0-8)	500-107457-8	2/10/2016			None
500-107457-1	Solid	2746-01-B39 (0-8)	500-107457-9	2/10/2016			None
500-107508-1	Solid	2746-01-B18 (0-8)	500-107508-1	2/11/2016	MS/MSD		None
500-107508-1	Solid	2746-01-B16 (16-24)	500-107508-10	2/11/2016			None
500-107508-1	Solid	2746-01-B16 (24-30)	500-107508-11	2/11/2016			None
500-107508-1	Solid	2746-01-B15 (0-8)	500-107508-12	2/11/2016			None
500-107508-1	Solid	2746-01-B15 (8-17)	500-107508-13	2/11/2016			None
500-107508-1	Solid	2746-01-B14 (0-8)	500-107508-14	2/11/2016			None
500-107508-1	Solid	2746-01-B14 (8-16)	500-107508-15	2/11/2016			None
500-107508-1	Solid	2746-01-B14 (16-24)	500-107508-16	2/11/2016			None
500-107508-1	Solid	2746-01-B14 (24-30)	500-107508-17	2/11/2016			None
500-107508-1	Solid	2746-01-B18 (8-16)	500-107508-2	2/11/2016	MS/MSD		None
500-107508-1	Solid	2746-01-B18 (16-24)	500-107508-3	2/11/2016	MS/MSD		None
500-107508-1	Solid	2746-01-B18 (24-30)	500-107508-4	2/11/2016			None
500-107508-1	Solid	2746-01-B18 (24-30)D	500-107508-5	2/11/2016			None
500-107508-1	Solid	2746-01-B17 (0-8)	500-107508-6	2/11/2016			None
500-107508-1	Solid	2746-01-B17 (8-16)	500-107508-7	2/11/2016			None
500-107508-1	Solid	2746-01-B16 (0-8)	500-107508-8	2/11/2016			None
500-107508-1	Solid	2746-01-B16 (8-16)	500-107508-9	2/11/2016			None
500-107556-1	Solid	2746-01-B05 (0-8)	500-107556-1	2/12/2016	MS/MSD		None
500-107556-1	Solid	2746-01-B07 (16-24)	500-107556-10	2/12/2016			None
500-107556-1	Solid	2746-01-B07 (24-30)	500-107556-11	2/12/2016			None
500-107556-1	Solid	2746-01-B08 (0-7)	500-107556-12	2/12/2016			None
500-107556-1	Solid	2746-01-B08 (7-14)	500-107556-13	2/12/2016			None
500-107556-1	Solid	2746-01-B09 (0-8)	500-107556-14	2/12/2016			None
500-107556-1	Solid	2746-01-B09 (8-16)	500-107556-15	2/12/2016			None
500-107556-1	Solid	2746-01-B09 (16-24)	500-107556-16	2/12/2016			None
500-107556-1	Solid	2746-01-B09 (24-30)	500-107556-17	2/12/2016			None
500-107556-1	Solid	2746-01-B05 (8-16)	500-107556-2	2/12/2016	MS/MSD		None
500-107556-1	Solid	2746-01-B05 (24-30)	500-107556-3	2/12/2016			None
500-107556-1	Solid	2746-01-B05 (16-24)	500-107556-4	2/12/2016			None
500-107556-1	Solid	2746-01-B06 (0-8)	500-107556-5	2/12/2016			None
500-107556-1	Solid	2746-01-B06 (8-16)	500-107556-6	2/12/2016			None
500-107556-1	Solid	2746-01-B07 (0-8)	500-107556-7	2/12/2016	MS/MSD		None
500-107556-1	Solid	2746-01-B07 (0-8)D	500-107556-8	2/12/2016			None
500-107556-1	Solid	2746-01-B07 (8-16)	500-107556-9	2/12/2016			None
500-107588-1	Solid	2746-01-B13 (0-8)	500-107588-1	2/15/2016	MS/MSD		None
500-107588-1	Solid	2746-01-B10 (0-6)	500-107588-10	2/15/2016			None
500-107588-1	Solid	2746-01-B10 (6-11)	500-107588-11	2/15/2016			None
500-107588-1	Solid	2746-01-B13 (8-15)	500-107588-2	2/15/2016	MS/MSD		None
500-107588-1	Solid	2746-01-B12 (0-8)	500-107588-3	2/15/2016	MS/MSD		None
500-107588-1	Solid	2746-01-B12 (8-16)	500-107588-4	2/15/2016			None

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
500-107588-1	Solid	2746-01-B12 (16-24)	500-107588-5	2/15/2016			None
500-107588-1	Solid	2746-01-B12 (24-30)	500-107588-6	2/15/2016			None
500-107588-1	Solid	2746-01-B11 (0-7)	500-107588-7	2/15/2016			None
500-107588-1	Solid	2746-01-B11 (7-14)	500-107588-8	2/15/2016	MS/MSD		None
500-107588-1	Solid	2746-01-B11 (14-20)	500-107588-9	2/15/2016			None

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-106984-1	Solid	EMoisture	Percent Moisture	16	SAMP
500-106984-1	Solid	SW6010B	Metals (ICP)	16	SAMP
500-106984-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	13	SAMP
500-106984-1	Solid	SW6010B_SPLP	Metals_SPLP	3	SAMP
500-106984-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	16	SAMP
500-106984-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	16	SAMP
500-106984-1	Solid	SW7470A_TCLP	Mercury_TCLP	16	SAMP
500-106984-1	Solid	SW7471B	Mercury (CVAA)	16	SAMP
500-106984-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	16	SAMP
500-106984-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	16	SAMP
500-106984-1	Solid	SW9045D	pH	16	SAMP
500-107010-1	Solid	EMoisture	Percent Moisture	20	SAMP
500-107010-1	Solid	SW6010B	Metals (ICP)	20	SAMP
500-107010-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	20	SAMP
500-107010-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	20	SAMP
500-107010-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	20	SAMP
500-107010-1	Solid	SW7470A_TCLP	Mercury_TCLP	20	SAMP
500-107010-1	Solid	SW7471B	Mercury (CVAA)	20	SAMP
500-107010-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	20	SAMP
500-107010-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	20	SAMP
500-107010-1	Solid	SW9045D	pH	20	SAMP
500-107086-1	Solid	EMoisture	Percent Moisture	13	SAMP
500-107086-1	Solid	SW6010B	Metals (ICP)	13	SAMP
500-107086-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	5	SAMP
500-107086-1	Solid	SW6010B_SPLP	Metals_SPLP	7	SAMP
500-107086-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	13	SAMP
500-107086-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	13	SAMP
500-107086-1	Solid	SW7470A_TCLP	Mercury_TCLP	13	SAMP
500-107086-1	Solid	SW7471B	Mercury (CVAA)	13	SAMP
500-107086-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	13	SAMP
500-107086-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	2	DL
500-107086-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	13	SAMP
500-107086-1	Solid	SW9045D	pH	13	SAMP
500-107169-1	Solid	EMoisture	Percent Moisture	3	SAMP
500-107169-1	Solid	SW6010B	Metals (ICP)	3	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-107169-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	1	SAMP
500-107169-1	Solid	SW6010B_SPLP	Metals_SPLP	2	SAMP
500-107169-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	3	SAMP
500-107169-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	3	SAMP
500-107169-1	Solid	SW7470A_TCLP	Mercury_TCLP	3	SAMP
500-107169-1	Solid	SW7471B	Mercury (CVAA)	3	SAMP
500-107169-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	3	SAMP
500-107169-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	3	SAMP
500-107169-1	Solid	SW9045D	pH	3	SAMP
500-107169-2	Solid	EMoisture	Percent Moisture	16	SAMP
500-107169-2	Solid	SW6010B	Metals (ICP)	16	SAMP
500-107169-2	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	9	SAMP
500-107169-2	Solid	SW6010B_SPLP	Metals_SPLP	6	SAMP
500-107169-2	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	16	SAMP
500-107169-2	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	16	SAMP
500-107169-2	Solid	SW7470A_TCLP	Mercury_TCLP	16	SAMP
500-107169-2	Solid	SW7471B	Mercury (CVAA)	16	SAMP
500-107169-2	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	16	SAMP
500-107169-2	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	16	SAMP
500-107169-2	Solid	SW9045D	pH	16	SAMP
500-107244-1	Solid	EMoisture	Percent Moisture	19	SAMP
500-107244-1	Solid	SW6010B	Metals (ICP)	19	SAMP
500-107244-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	16	SAMP
500-107244-1	Solid	SW6010B_SPLP	Metals_SPLP	3	SAMP
500-107244-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	19	SAMP
500-107244-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	19	SAMP
500-107244-1	Solid	SW7470A_TCLP	Mercury_TCLP	19	SAMP
500-107244-1	Solid	SW7471B	Mercury (CVAA)	19	SAMP
500-107244-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	19	SAMP
500-107244-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	DL
500-107244-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	19	SAMP
500-107244-1	Solid	SW9045D	pH	19	SAMP
500-107297-1	Solid	EMoisture	Percent Moisture	21	SAMP
500-107297-1	Solid	SW6010B	Metals (ICP)	21	SAMP
500-107297-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	16	SAMP
500-107297-1	Solid	SW6010B_SPLP	Metals_SPLP	5	SAMP
500-107297-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	21	SAMP
500-107297-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	21	SAMP
500-107297-1	Solid	SW7470A_TCLP	Mercury_TCLP	21	SAMP
500-107297-1	Solid	SW7471B	Mercury (CVAA)	21	SAMP
500-107297-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	21	SAMP
500-107297-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	21	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-107297-1	Solid	SW9045D	pH	21	SAMP
500-107297-1	Water	SW6020A	Metals (ICP/MS)	1	SAMP
500-107297-1	Water	SW7470A	Mercury	1	SAMP
500-107297-1	Water	SW8260B	VOC	2	SAMP
500-107297-1	Water	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	SAMP
500-107391-1	Solid	EMoisture	Percent Moisture	11	SAMP
500-107391-1	Solid	SW6010B	Metals (ICP)	11	SAMP
500-107391-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	9	SAMP
500-107391-1	Solid	SW6010B_SPLP	Metals_SPLP	2	SAMP
500-107391-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	11	SAMP
500-107391-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	11	SAMP
500-107391-1	Solid	SW7470A_TCLP	Mercury_TCLP	11	SAMP
500-107391-1	Solid	SW7471B	Mercury (CVAA)	11	SAMP
500-107391-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	11	SAMP
500-107391-1	Solid	SW8270D	Semi-volatile Organic Compounds (GC/MS)	11	SAMP
500-107391-1	Solid	SW9045D	pH	11	SAMP
500-107399-1	Solid	EMoisture	Percent Moisture	32	SAMP
500-107399-1	Solid	SW6010B	Metals (ICP)	32	SAMP
500-107399-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	19	SAMP
500-107399-1	Solid	SW6010B_SPLP	Metals_SPLP	12	SAMP
500-107399-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	32	SAMP
500-107399-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	32	SAMP
500-107399-1	Solid	SW7470A_TCLP	Mercury_TCLP	32	SAMP
500-107399-1	Solid	SW7471B	Mercury (CVAA)	32	SAMP
500-107399-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	32	SAMP
500-107399-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	32	SAMP
500-107399-1	Solid	SW9045D	pH	32	SAMP
500-107457-1	Solid	EMoisture	Percent Moisture	15	SAMP
500-107457-1	Solid	SW6010B	Metals (ICP)	15	SAMP
500-107457-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	14	SAMP
500-107457-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-107457-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	15	SAMP
500-107457-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	15	SAMP
500-107457-1	Solid	SW7470A_TCLP	Mercury_TCLP	15	SAMP
500-107457-1	Solid	SW7471B	Mercury (CVAA)	15	SAMP
500-107457-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	15	SAMP
500-107457-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	15	SAMP
500-107457-1	Solid	SW9045D	pH	15	SAMP
500-107508-1	Solid	EMoisture	Percent Moisture	17	SAMP
500-107508-1	Solid	SW6010B	Metals (ICP)	17	SAMP
500-107508-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	17	SAMP
500-107508-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	17	SAMP

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
500-107508-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	17	SAMP
500-107508-1	Solid	SW7470A_TCLP	Mercury_TCLP	17	SAMP
500-107508-1	Solid	SW7471B	Mercury (CVAA)	17	SAMP
500-107508-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	17	SAMP
500-107508-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	1	DL
500-107508-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	17	SAMP
500-107508-1	Solid	SW9045D	pH	17	SAMP
500-107556-1	Solid	EMoisture	Percent Moisture	17	SAMP
500-107556-1	Solid	SW6010B	Metals (ICP)	17	SAMP
500-107556-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	15	SAMP
500-107556-1	Solid	SW6010B_SPLP	Metals_SPLP	2	SAMP
500-107556-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	17	SAMP
500-107556-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	17	SAMP
500-107556-1	Solid	SW7470A_TCLP	Mercury_TCLP	17	SAMP
500-107556-1	Solid	SW7471B	Mercury (CVAA)	17	SAMP
500-107556-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	17	SAMP
500-107556-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	17	SAMP
500-107556-1	Solid	SW9045D	pH	17	SAMP
500-107588-1	Solid	EMoisture	Percent Moisture	11	SAMP
500-107588-1	Solid	SW6010B	Metals (ICP)	11	SAMP
500-107588-1	Solid	SW6010B_SPLP	Metals (ICP)_SPLP	10	SAMP
500-107588-1	Solid	SW6010B_SPLP	Metals_SPLP	1	SAMP
500-107588-1	Solid	SW6010B_TCLP	Metals (ICP)_TCLP	11	SAMP
500-107588-1	Solid	SW6020A_TCLP	Metals (ICP/MS)_TCLP	11	SAMP
500-107588-1	Solid	SW7470A_TCLP	Mercury_TCLP	11	SAMP
500-107588-1	Solid	SW7471B	Mercury (CVAA)	11	SAMP
500-107588-1	Solid	SW8260B	Volatile Organic Compounds (GC/MS)	11	SAMP
500-107588-1	Solid	SW8270D	Semivolatile Organic Compounds (GC/MS)	11	SAMP
500-107588-1	Solid	SW9045D	pH	11	SAMP

II. SAMPLE PROCEDURES

All samples were collected as specified in the work plan and documented on the chain-of-custody (COC). Samples were analyzed as specified on the COC. Samples were packaged, shipped and received as specified in the work plan. All samples must be received cold (4°+/- 2°C) and in good condition as documented on the Cooler Receipt Forms.

REVIEW RESULTS:

All sample procedures were followed and the sample coolers were received at the appropriate temperature (4 +/-2 C) and in good condition as documented on the Cooler Receipt Forms.

III. LABORATORY DATA

1.0 HOLDING TIMES

Holding times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. Exceeding the holding time for a sample generally results in a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

REVIEW RESULTS:

All samples were analyzed within the project-specified holding time.

2.0 BLANKS

Laboratory and field blank samples are analyzed and evaluated to determine the existence and magnitude of possible contamination during the sampling and analysis process. As noted in Table 2 (if applicable), analyte concentrations in the blanks are generally below the practical quantitation limit (PQL). If the analyte is present in the sample at similar trace levels, then the analyte is likely a common background contaminant from some phase of the sampling, extraction, or analytical procedure and associated low level sample concentrations are not considered to be site related. If the analyte concentration is above the PQL, then there is a potential contamination problem and sample results may be biased high or the data unusable.

REVIEW RESULTS:

Blanks were performed at the required frequency. Generally, for sample results less than five times the blank detection, if the sample result was less than the PQL, the MDL was elevated to the sample result; however, if the sample result was greater than the PQL, then the PQL was elevated to the sample result.

Several metals were detected in method blanks by Methods SW6010B, SW6010B_SPLP, SW6010B_TCLP, SW6020A, and organic analytes by Methods SW8260B

and SW8270D were detected below or slightly above the PQL as noted in Table 2. Results were qualified as shown in Table 2A.

For Method SW6010B, calcium was detected in the instrument blank for batch 500-323716; the associated sample results were greater than 10X the blank concentration and were not qualified.

3.0 SURROGATE SPIKE RECOVERY

Laboratory performance for individual samples analyzed for organic compounds is established by means of surrogate spiking activities. Samples are spiked with surrogate compounds prior to preparation and analysis. Unusually low or high surrogate recovery values may indicate some deficiency in the analytical system or that some matrix effects exist, resulting in low or high sample results for target compounds. Sample surrogate recoveries outside QC limits (if applicable) are presented in Table 3. No qualification was made to MS/MSD results for samples with surrogate recoveries outside QC limits.

REVIEW RESULTS:

Surrogate spikes were appropriately added to all field and QC samples and recovered within acceptance criteria except as noted in Table 3. The following surrogate failures were noted for semi-volatile analysis by SW8270D. Many of the samples each had one acid or base/neutral surrogate outside of control limits. A few of the samples each had one acid and one base/neutral surrogate outside of control limits. No qualification of the data was made. Additionally, no qualification of the data was made if the surrogate recovery was outside of acceptance limits due to sample dilution since the surrogate concentrations were diluted as well. A few of the samples each had one acid and two base/neutral surrogates outside of control limits. The sample results were J/UJ qualified if two or more acid or base surrogates were outside of acceptance criteria, and the samples were J/UJ qualified if 3 or more surrogate recoveries were outside of acceptance criteria. Several MS/MSD samples exhibited 3 surrogates outside of acceptance criteria. No qualification was made on the MS/MSD samples, and the associated parent samples did not require qualification.

Sample 2746-01-B46 (0-5) exhibited a high recovery of one the surrogates by Method 8260B. The sample results were all nondetect; therefore, no qualification of the data was made.

4.0 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

The matrix spike and matrix spike duplicate (MS/MSD) analyses are intended to provide information about the effects that the sample matrix exerts on the digestion/extraction and measurement methodology. MS recovery values that do not meet laboratory QC criteria may indicate that sample analyte results are being attenuated in the analysis procedure. These results are presented in Table 4 (if applicable). The potential sample bias may be estimated by noting the degree to which the MS concentration was elevated or lowered in the spike analysis. However, this bias should serve only as approximations; sample-specific problems may be the cause of the discrepancy, particularly in soil samples. Recoveries of a post-digestion spike or a laboratory control sample (LCS) are used to verify that the analytical methodology is acceptable and that MS recoveries are due to matrix effects. An MSD analysis is performed to evaluate the precision of the sample results. Precision is measured as the relative percent difference (RPD) between analytical results for duplicate samples. The laboratory's failure to produce similar results for MSD samples may indicate that the samples were non-homogeneous (particularly in soil samples), or that method defects may exist in the laboratory's techniques.

REVIEW RESULTS:

The MS/MSD sample analyses were performed at the required frequency. The recovery and RPD results for MS/MSDs for project samples were within QC criteria established except as noted on Table 4 (batch MS/MSDs performed for other clients' samples were not included in the table).

The MS and /or MSDs for several metals for Methods SW6010B_TCLP, SW6010B, 8270D, and SW6020A exhibited failing recoveries. If the spiking recovery was high and the analyte was not detected in the sample, no qualification of the data was made; however, if there was a positive detection in the parent sample, then the result was J qualified as estimated. If the native concentration in the parent sample was greater than 4X the spiking concentration, or the spiked sample was diluted out, then no qualification of the data was required.

If the spiking recovery was low and the analyte was not detected in the parent, then the parent result was UJ qualified. If the analyte was detected in the parent sample, then the result was J qualified as estimated. 2,4-dinitrophenol, hexachlorocyclopentadiene, pentachlorophenol, and 4,6-dinitro-2-methylphenol exhibited 0% recoveries in many of the MS and MSDs; however, these analytes are poor performing compounds in a multi-parameter spike and were qualified UJ as estimated unless they were rejected for LCS failure as noted in Section 5 (2,4-dinitrophenol results from three batches; qualified UR as nondetects rejected). Boron exhibited a recovery of -12% in the MS of 2746-01-A-B01 (SS). The sample results were qualified UR as rejected non-detect.

For laboratory replicate analysis that failed precision, the results in the parent sample were qualified J as estimated if the RPD did not meet the laboratory limit. No qualification was made on the analytes that exhibited poor precision with sample results that were less than 5X the PQL.

5.0 LABORATORY CONTROL SAMPLE ANALYSIS

The LCS is analyzed to monitor the efficiency of the digestion/extraction procedure and analytical instrument operation. The ability of the laboratory to successfully analyze an LCS demonstrates that there are no analytical problems related to the digestion/sample preparation procedures and/or instrument operations. The LCS results outside QC limits are presented in Table 5 (if applicable). Sporadic and marginal QC failures for multiple component methods do not indicate an analytical concern. If recoveries are high and the compounds are not detected

in the samples, then no data qualification is required. All recoveries should be above 10% or the non-detect results flagged "UR" as rejected.

REVIEW RESULTS:

All LCS analyses were within control limits and performed at the required frequency except as noted on Table 5.

Iron recovered high for LCS 500-321610/2-A by Method SW6010B_TCLP; associated detected sample results were qualified with J as estimated; nondetect results were not qualified.

For Methods SW8260B and SW8270D, several LCS/LCSD recoveries were outside QC limits; the associated sample results were qualified as shown in Table 5. If the recovery was high and the analyte was not detected in the sample, no qualification of the data was made; however, if there was a positive detection in the parent sample, then the result was J qualified as estimated. If the recovery was low, then results were qualified J/UJ as estimated.

2,4-Dinitrophenol was recovered below 10% in two LCSs by Method SW8270D. The analyte is a poor performing compound in a multi-parameter spike. The associated sample results were non-detect and were qualified UR as rejected.

6.0 COMPOUND IDENTIFICATION AND QUANTITATION

Compound identities are assigned by comparing sample compound retention times to retention times from known (standard) compounds and identification of an acceptable mass spectrum. Compounds detected below PQLs in samples should be considered estimated and are qualified "J." The samples with compounds above the linear range were all re-analyzed at a higher dilution factor.

REVIEW RESULTS:

All compound identification and quantitation criteria were achieved as could be determined from the EDD. Samples were diluted to bring the target concentration within the calibration range or due to the nature of the matrix as shown on Table 6. Generally there was no impact to data usability. Sample 2746-01B-B02 (0-3) exhibited elevated reporting limits due to dilution by Method 8270D, and sample 2746-18-B01 (0-8)D exhibited elevated reporting limits due to dilution by Method 8260B. Elevated reporting limits may exceed screening criteria.

For method SW6010B, the continuing calibration verification (CCV) associated with batch 500-322292 recovered high for iron; the associated sample results were nondetects and were not qualified. The initial calibration verification (ICV) associated with batch 500-322494 recovered high for calcium; the associated sample result (only sample 2746-01A-B05 (0-8)) was qualified with a J as estimated.

For Method SW6020A, the low level CCV (CCVL) associated with batch 322858 recovered high for sodium; the sample results associated with this CCVL were at a level that would be unaffected by this excursion and were not qualified. For Method SW6020A, the CCV associated with batch 500-323182 recovered high for antimony; the associated sample results were nondetects and were not qualified. Several CCVs associated with batch 500-323369 recovered high for thallium and antimony. The associated sample results were nondetects and were not qualified.

For method SW8260B, the CCVs associated with batches 500-321853, 500-321546, and 500-323326 recovered high for vinyl acetate as described in the case narrative. The associated sample results were nondetects and were not qualified.

7.0 FIELD DUPLICATE SAMPLE RESULTS

Field duplicate samples were collected and analyzed as an indication of overall precision for both field and laboratory. Field duplicate results are summarized in Table 7 (if applicable). The results are expected to have more variability than laboratory duplicates, which measure only laboratory precision. It is expected also that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical field samples. The QC criteria used to assess field duplicate samples for this project was limits of 70% RPD for soils and 40% RPD for waters, or twice the general laboratory duplicate criteria. If both compounds were below the laboratory PQL or one of the compounds was present as a non-detect, then the compounds are generally not qualified due to field duplicate precision. There are no guidelines regarding data qualification based on poor field duplicate precision. Professional judgment was used to determine whether or not to qualify results.

REVIEW RESULTS:

Ten field duplicates were collected per 201 soil samples. The RPD ratings are listed on Table 7 and were generally “Good”. Several analytes were J qualified as estimated in the field duplicate sample pair due to poor precision.

Table 2 - List of Positive Results for Blank Samples

Method	Sample ID	Samp Type	Analyte	Result	Qual	Anal Type	Units	MDL	PQL
SW6010B	MB 500-321396/1-A	MBLK	Calcium	16.4	J	A	mg/Kg	6.4	20
SW6010B	MB 500-321396/1-A	MBLK	Chromium	0.561	J	A	mg/Kg	0.17	1
SW6010B	MB 500-321396/1-A	MBLK	Iron	15.4	J	A	mg/Kg	7.7	20
SW6010B	MB 500-321396/1-A	MBLK	Magnesium	7.8	J	A	mg/Kg	4.1	10
SW6010B	MB 500-321396/1-A	MBLK	Sodium	25.6	J	A	mg/Kg	13	100
SW6010B	MB 500-321778/1-A	MBLK	Antimony	0.422	J	A	mg/Kg	0.42	2
SW6010B	MB 500-321778/1-A	MBLK	Calcium	18.2	J	A	mg/Kg	6.4	20
SW6010B	MB 500-321778/1-A	MBLK	Chromium	0.36	J	A	mg/Kg	0.17	1
SW6010B	MB 500-321778/1-A	MBLK	Iron	14.6	J	A	mg/Kg	7.7	20
SW6010B	MB 500-321778/1-A	MBLK	Magnesium	7.59	J	A	mg/Kg	4.1	10
SW6010B	MB 500-321778/1-A	MBLK	Selenium	0.645	J	A	mg/Kg	0.5	1
SW6010B	MB 500-321953/1-A	MBLK	Calcium	8.9	J	A	mg/Kg	6.4	20
SW6010B	MB 500-321953/1-A	MBLK	Chromium	0.488	J	A	mg/Kg	0.17	1
SW6010B	MB 500-321953/1-A	MBLK	Iron	13.4	J	A	mg/Kg	7.7	20
SW6010B	MB 500-321953/1-A	MBLK	Magnesium	4.52	J	A	mg/Kg	4.1	10
SW6010B	MB 500-322038/1-A	MBLK	Calcium	7.76	J	A	mg/Kg	6.4	20
SW6010B	MB 500-322038/1-A	MBLK	Chromium	0.864	J	A	mg/Kg	0.17	1
SW6010B	MB 500-322038/1-A	MBLK	Magnesium	6.81	J	A	mg/Kg	4.1	10
SW6010B	MB 500-322038/1-A	MBLK	Sodium	37.2	J	A	mg/Kg	13	100
SW6010B	MB 500-322299/1-A	MBLK	Cadmium	0.0721	J	A	mg/Kg	0.058	0.2
SW6010B	MB 500-322299/1-A	MBLK	Chromium	1.07		A	mg/Kg	0.17	1
SW6010B	MB 500-322299/1-A	MBLK	Iron	15.3	J	A	mg/Kg	7.7	20
SW6010B	MB 500-322299/1-A	MBLK	Sodium	29	J	A	mg/Kg	13	100
SW6010B	MB 500-322527/1-A	MBLK	Calcium	11.4	J	A	mg/Kg	6.4	20
SW6010B	MB 500-322527/1-A	MBLK	Chromium	1		A	mg/Kg	0.17	1
SW6010B	MB 500-322527/1-A	MBLK	Iron	12.6	J	A	mg/Kg	7.7	20
SW6010B_SPLP	LB 500-321923/1-B	MBLK	Zinc	0.246	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-321479/1-C	MBLK	Zinc	0.0259	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-321921/1-C	MBLK	Zinc	0.0422	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-322144/1-C	MBLK	Boron	0.286	J	A	mg/L	0.05	0.5
SW6010B_TCLP	LB 500-322144/1-C	MBLK	Chromium	0.0123	J	A	mg/L	0.01	0.025

Method	Sample ID	Samp Type	Analyte	Result	Qual	Anal Type	Units	MDL	PQL
SW6010B_TCLP	LB 500-322144/1-C	MBLK	Iron	0.333	J	A	mg/L	0.2	0.4
SW6010B_TCLP	LB 500-322144/1-C	MBLK	Nickel	0.0102	J	A	mg/L	0.01	0.025
SW6010B_TCLP	LB 500-322144/1-C	MBLK	Zinc	0.0899	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-322351/1-B	MBLK	Zinc	0.287	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-322353/1-B	MBLK	Boron	0.0549	J	A	mg/L	0.05	0.5
SW6010B_TCLP	LB 500-322353/1-B	MBLK	Zinc	0.319	J	A	mg/L	0.02	0.5
SW6020A	MB 500-322174/1-A	MBLK	Thallium	0.000672	J	A	mg/L	0.00059	0.002
SW8260B	MB 500-322565/6	MBLK	Methylene Chloride	0.0051		A	mg/Kg	0.0016	0.005
SW8270D	MB 500-322157/1-A	MBLK	Di-n-butyl phthalate	0.000689	J	A	mg/L	0.00058	0.004
SW6010B	MB 500-322600/1-A	MBLK	Chromium	1.39		A	mg/Kg	0.17	1
SW6010B	MB 500-322600/1-A	MBLK	Iron	19.5	J	A	mg/Kg	7.7	20
SW6010B	MB 500-322600/1-A	MBLK	Manganese	0.387	J	A	mg/Kg	0.2	1
SW6010B	MB 500-322600/1-A	MBLK	Nickel	0.422	J	A	mg/Kg	0.27	1
SW6010B	MB 500-322606/1-A	MBLK	Chromium	1.4		A	mg/Kg	0.17	1
SW6010B	MB 500-322606/1-A	MBLK	Iron	33.6		A	mg/Kg	7.7	20
SW6010B	MB 500-322606/1-A	MBLK	Nickel	0.456	J	A	mg/Kg	0.27	1
SW6010B	MB 500-322729/1-A	MBLK	Calcium	13.1	J	A	mg/Kg	6.4	20
SW6010B	MB 500-322729/1-A	MBLK	Chromium	0.534	J	A	mg/Kg	0.17	1
SW6010B	MB 500-322729/1-A	MBLK	Iron	10.4	J	A	mg/Kg	7.7	20
SW6010B	MB 500-322729/1-A	MBLK	Magnesium	5.41	J	A	mg/Kg	4.1	10
SW6010B	MB 500-322859/1-A	MBLK	Calcium	21.8		A	mg/Kg	6.4	20
SW6010B	MB 500-322859/1-A	MBLK	Chromium	1.05		A	mg/Kg	0.17	1
SW6010B	MB 500-322859/1-A	MBLK	Iron	15.8	J	A	mg/Kg	7.7	20
SW6010B	MB 500-322859/1-A	MBLK	Magnesium	10.5		A	mg/Kg	4.1	10
SW6010B	MB 500-322859/1-A	MBLK	Sodium	13.5	J	A	mg/Kg	13	100
SW6010B	MB 500-323078/1-A	MBLK	Calcium	11.7	J	A	mg/Kg	6.4	20
SW6010B	MB 500-323078/1-A	MBLK	Chromium	0.32	J	A	mg/Kg	0.17	1
SW6010B	MB 500-323078/1-A	MBLK	Iron	8.28	J	A	mg/Kg	7.7	20
SW6010B	MB 500-323092/1-A	MBLK	Calcium	10.9	J	A	mg/Kg	6.4	20
SW6010B	MB 500-323092/1-A	MBLK	Chromium	0.385	J	A	mg/Kg	0.17	1
SW6010B	MB 500-323092/1-A	MBLK	Manganese	0.203	J	A	mg/Kg	0.2	1
SW6010B_SPLP	LB 500-322502/1-B	MBLK	Boron	0.0776	J	A	mg/L	0.05	0.1
SW6010B_SPLP	LB 500-322502/1-B	MBLK	Zinc	0.0388	J	A	mg/L	0.02	0.1

Method	Sample ID	Samp Type	Analyte	Result	Qual	Anal Type	Units	MDL	PQL
SW6010B_SPLP	LB 500-322503/1-B	MBLK	Boron	0.952	J	A	mg/L	0.05	2
SW6010B_SPLP	LB 500-322503/1-B	MBLK	Lead	0.0174	J	A	mg/L	0.0075	0.05
SW6010B_SPLP	LB 500-323287/1-B	MBLK	Zinc	0.0301	J	A	mg/L	0.02	0.1
SW6010B_TCLP	LB 500-322353/1-B	MBLK	Boron	0.0549	J	A	mg/L	0.05	0.5
SW6010B_TCLP	LB 500-322353/1-B	MBLK	Zinc	0.319	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-322498/1-C	MBLK	Barium	0.0515	J	A	mg/L	0.05	0.5
SW6010B_TCLP	LB 500-322498/1-C	MBLK	Boron	1.08	J	A	mg/L	0.05	2
SW6010B_TCLP	LB 500-322498/1-C	MBLK	Iron	0.325	J	A	mg/L	0.2	0.4
SW6010B_TCLP	LB 500-322498/1-C	MBLK	Nickel	0.0164	J	A	mg/L	0.01	0.025
SW6010B_TCLP	LB 500-322498/1-C	MBLK	Zinc	0.17	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-322499/1-C	MBLK	Boron	0.488	J	A	mg/L	0.05	0.5
SW6010B_TCLP	LB 500-322499/1-C	MBLK	Zinc	0.0881	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-322655/1-B	MBLK	Zinc	0.117	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-323088/1-D	MBLK	Zinc	0.281	J	A	mg/L	0.02	0.5
SW6010B_TCLP	LB 500-323096/1-B	MBLK	Zinc	0.135	J	A	mg/L	0.02	0.5

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.044	J B	0.5	2746-01-B112 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.048	J B	0.5	2746-01-B56 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.064	J B	0.5	2746-01-B93 (5-10)	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.066	J B	0.5	2746-01-B92 (5-10)	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.074	J B	0.5	2746-01-B110 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.1	J B	0.5	2746-01-B54 (7-14)D	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.11	J B	0.5	2746-01-B93 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.13	J B	0.5	2746-01-B109 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.15	J B	0.5	2746-01-B55 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.15	J B	0.5	2746-01-B94 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.16	J B	0.5	2746-01-B111 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.2	J B	0.5	2746-01-B54 (14-20)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.21	J B	0.5	2746-01-B54 (7-14)	mg/L	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.43	J B	0.5	2746-01-B57 (0-6)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321479/1-C	Solid	Zinc	0.0259	0.45	J B	0.5	2746-01-B54 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	10	B	0.5	2746-01-B72 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.043	J B	0.5	2746-01-B68 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.06	J B	0.5	2746-01-B73 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.083	J B	0.5	2746-01-B67 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.11	J B	0.5	2746-18-B01 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.14	J B	0.5	2746-18-B01 (0-8)D	mg/L	U Flag
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.18	J B	0.5	2746-01-B71 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.23	J B	0.5	2746-01-B70 (0-2)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.27	J B	0.5	2746-01-B65 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-321921/1-C	Solid	Zinc	0.0422	0.36	J B	0.5	2746-01-B69 (0-2)	mg/L	Not Qualified
SW6010B_SPLP	LB 500-321923/1-B	Solid	Zinc	0.246	1.1	B	0.5	2746-01-B72 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.67	B	0.5	2746-01-B48 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.68	B	0.5	2746-01-B44 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.7	B	0.5	2746-01-B87 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.72	B	0.5	2746-01-B23 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.74	B	0.5	2746-01-B44 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.74	B	0.5	2746-01-B46 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.75	B	0.5	2746-01-B43 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.76	B	0.5	2746-01-B43 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.81	B	0.5	2746-01-B22 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.84	B	0.5	2746-01-B46 (5-10)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.88	B	0.5	2746-01-B48 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.89	B	0.5	2746-01-B45 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.89	B	0.5	2746-01-B47 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.89	B	0.5	2746-01-B87 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.93	B	0.5	2746-01-B19 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.97	B	0.5	2746-01-B45 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.12	J B	0.5	2746-01-B87 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.4	J B	0.5	2746-01-B47 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Boron	0.286	0.082	J B F1	0.5	2746-61-B01 (0-5)	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Iron	0.333	0.2	J B	0.4	2746-01-B46 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Iron	0.333	0.21	J B	0.4	2746-01-B43 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.029	B	0.025	2746-01-B43 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.033	B	0.025	2746-01-B46 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.04	B	0.025	2746-01-B44 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.041	B	0.025	2746-01-B47 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.044	B	0.025	2746-01-B87 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.045	B	0.025	2746-01-B47 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.047	B	0.025	2746-01-B87 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.049	B	0.025	2746-01-B48 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.052	B	0.025	2746-01-B87 (14-20)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.053	B	0.025	2746-01-B45 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.054	B	0.025	2746-01-B44 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.055	B	0.025	2746-01-B46 (5-10)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.056	B	0.025	2746-01-B48 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.064	B	0.025	2746-01-B43 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.069	B	0.025	2746-01-B45 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.019	J B	0.025	2746-01-B22 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.019	J B	0.025	2746-61-B01 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.023	J B	0.025	2746-01-B19 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Nickel	0.0102	0.024	J B	0.025	2746-01-B23 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.53	B	0.5	2746-01-B87 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.58	B	0.5	2746-01-B46 (5-10)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.94	B	0.5	2746-01-B44 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.072	J B	0.5	2746-61-B01 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.11	J B	0.5	2746-01-B47 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.18	J B	0.5	2746-01-B23 (0-2)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.2	J B	0.5	2746-01-B45 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.21	J B	0.5	2746-01-B44 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.26	J B	0.5	2746-01-B48 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.34	J B	0.5	2746-01-B47 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.35	J B	0.5	2746-01-B87 (14-20)	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.36	J B	0.5	2746-01-B43 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.4	J B	0.5	2746-01-B46 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.42	J B	0.5	2746-01-B48 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.45	J B	0.5	2746-01-B45 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322144/1-C	Solid	Zinc	0.0899	0.47	J B	0.5	2746-01-B87 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.87	B	0.5	2746-01-B60 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.91	B	0.5	2746-01-B59 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.038	J B	0.5	2746-01-B58 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.072	J B	0.5	2746-02-B02 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.077	J B	0.5	2746-01-B02 (8-15)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.084	J B	0.5	2746-01-B58 (8-16)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.1	J B	0.5	2746-01-B03 (8-12)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.11	J B	0.5	2746-01-B59 (0-7)D	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.12	J B	0.5	2746-01-B03 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.12	J B	0.5	2746-02-B02 (7-13)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.13	J B	0.5	2746-01-B04 (8-17)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.18	J B	0.5	2746-01-B59 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.19	J B	0.5	2746-01-B60 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.2	J B	0.5	2746-01-B02 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.25	J B	0.5	2746-01-B01 (5-10)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.28	J B	0.5	2746-01-B60 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.33	J B	0.5	2746-02-B02 (13-19)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.36	J B	0.5	2746-01-B04 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.43	J B	0.5	2746-01-B01 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322351/1-B	Solid	Zinc	0.287	0.45	J B	0.5	2746-01-B59 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.073	J B	0.5	2746-01-B37 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.37	J B	0.5	2746-01-B37 (0-8)	mg/L	U Flag
SW8270D	MB 500-322157/1-A	Water	Di-n-butyl phthalate	0.000689	0.0015	J B	0.0046	2746-01-G03	mg/L	U Flag
SW6020A	MB 500-322174/1-A	Water	Thallium	0.000672	0.00062	J B	0.002	2746-01-G03	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	4700	B	11	2746-01-B111 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	60000	B	120	2746-01-B110 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	61000	B	110	2746-01-B93 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	62000	B	110	2746-01-B54 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	62000	B	110	2746-01-B92 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	62000	B	120	2746-01-B94 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	63000	B	120	2746-01-B54 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	63000	B	110	2746-01-B92 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	63000	B	120	2746-01-B56 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	64000	B	110	2746-01-B54 (7-14)D	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	65000	B	120	2746-01-B54 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	66000	B	120	2746-01-B109 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	77000	B	120	2746-01-B55 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	79000	B	110	2746-01-B57 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	90000	B	120	2746-01-B112 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Calcium	16.4	94000	B	120	2746-01-B93 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	14	B	0.58	2746-01-B112 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	14	B	0.58	2746-01-B93 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	17	B	0.55	2746-01-B57 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	17	B	0.57	2746-01-B54 (7-14)D	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	17	B	0.58	2746-01-B54 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	17	B	0.59	2746-01-B109 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	18	B	0.59	2746-01-B110 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	18	B	0.55	2746-01-B54 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	18	B	0.59	2746-01-B54 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	18	B	0.55	2746-01-B93 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	18	B	0.59	2746-01-B94 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	19	B	0.56	2746-01-B92 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	19	B	0.57	2746-01-B92 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	19	B	0.6	2746-01-B55 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	20	B	0.57	2746-01-B111 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Chromium	0.561	26	B	0.58	2746-01-B56 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	12000	B	12	2746-01-B93 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	16000	B	12	2746-01-B112 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	17000	B	11	2746-01-B57 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	18000	B	12	2746-01-B109 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	18000	B	12	2746-01-B110 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	18000	B	11	2746-01-B54 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	18000	B	12	2746-01-B54 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	18000	B	11	2746-01-B93 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	18000	B	12	2746-01-B55 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	19000	B	11	2746-01-B54 (7-14)D	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	19000	B	12	2746-01-B54 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	20000	B	11	2746-01-B111 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	20000	B	11	2746-01-B92 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	20000	B	11	2746-01-B92 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	20000	B	12	2746-01-B94 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Iron	15.4	27000	B	12	2746-01-B56 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	24000	B	5.6	2746-01-B92 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	26000	B	5.5	2746-01-B54 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	26000	B	5.5	2746-01-B93 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	27000	B	5.9	2746-01-B110 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	27000	B	5.9	2746-01-B54 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	27000	B	5.7	2746-01-B92 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	27000	B	5.8	2746-01-B54 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	27000	B	5.9	2746-01-B94 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	27000	B	6	2746-01-B55 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	28000	B	5.7	2746-01-B54 (7-14)D	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	28000	B	5.8	2746-01-B56 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	29000	B	5.9	2746-01-B109 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	36000	B	5.5	2746-01-B57 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	42000	B	5.8	2746-01-B93 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	43000	B	5.8	2746-01-B112 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Magnesium	7.8	5700	B	5.7	2746-01-B111 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	1100	B	55	2746-01-B54 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	130	B	57	2746-01-B111 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	1500	B	55	2746-01-B57 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	230	B	58	2746-01-B93 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	240	B	59	2746-01-B109 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	360	B	57	2746-01-B92 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	400	B	59	2746-01-B54 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	440	B	59	2746-01-B110 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	450	B	59	2746-01-B94 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	530	B	58	2746-01-B54 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	580	B	55	2746-01-B93 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	580	B	57	2746-01-B54 (7-14)D	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	580	B	60	2746-01-B55 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	600	B	58	2746-01-B56 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	860	B	56	2746-01-B92 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321396/1-A	Solid	Sodium	25.6	920	B	58	2746-01-B112 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	13000	B	12	2746-01-B66 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	15000	B	11	2746-01-B63 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	46000	B	110	2746-01-B62 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	46000	B	120	2746-02-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	48000	B	110	2746-01-B61 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	53000	B	110	2746-01-B49 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	54000	B	110	2746-01-B50 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	54000	B	110	2746-01-B53 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	55000	B	120	2746-01-B62 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	56000	B	110	2746-01-B51 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	57000	B	120	2746-01-B50 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	58000	B	110	2746-01-B64 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	59000	B	110	2746-01-B52 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	59000	B	110	2746-02-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	59000	B	120	2746-01-B51 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	61000	B	120	2746-01-B49 (6.5-13)D	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	64000	B	110	2746-01-B49 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	66000	B	110	2746-01-B52 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	74000	B	110	2746-02-B01 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Calcium	18.2	79000	B	110	2746-01-B62 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	11	B	0.55	2746-02-B01 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	14	B	0.57	2746-01-B61 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	15	B	0.53	2746-01-B64 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	16	B	0.55	2746-01-B52 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	16	B	0.56	2746-01-B62 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	17	B	0.56	2746-01-B49 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	17	B	0.57	2746-01-B51 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	17	B	0.56	2746-01-B52 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	17	B	0.56	2746-01-B63 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	17	B	0.57	2746-02-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	18	B	0.57	2746-01-B49 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	18	B	0.6	2746-01-B49 (6.5-13)D	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	18	B	0.56	2746-01-B53 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	18	B	0.57	2746-01-B50 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	18	B	0.58	2746-01-B50 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	18	B	0.6	2746-01-B51 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	20	B	0.58	2746-01-B62 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	23	B	0.59	2746-01-B66 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	24	B	0.58	2746-02-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Chromium	0.36	8.2	B	0.56	2746-01-B62 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	13000	B	11	2746-01-B62 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	15000	B	11	2746-01-B63 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	17000	B	11	2746-01-B52 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	17000	B	11	2746-01-B61 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	17000	B	11	2746-01-B62 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	17000	B	11	2746-01-B64 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	18000	B	11	2746-01-B49 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	18000	B	11	2746-01-B50 (0-6.5)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	18000	B	11	2746-01-B51 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	18000	B	11	2746-01-B52 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	18000	B	11	2746-02-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	19000	B	12	2746-01-B50 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	19000	B	12	2746-01-B51 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	19000	B	11	2746-01-B53 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	19000	B	12	2746-01-B62 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	20000	B	12	2746-01-B49 (6.5-13)D	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	20000	B	11	2746-01-B49 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	20000	B	12	2746-02-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	21000	B	11	2746-02-B01 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Iron	14.6	22000	B	12	2746-01-B66 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	11000	B	5.9	2746-01-B66 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	21000	B	5.8	2746-02-B01 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	22000	B	5.7	2746-01-B61 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	23000	B	5.8	2746-01-B62 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	25000	B	5.3	2746-01-B64 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	26000	B	5.6	2746-01-B62 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	27000	B	5.7	2746-01-B49 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	27000	B	5.7	2746-01-B50 (0-6.5)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	27000	B	5.6	2746-01-B53 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	27000	B	5.7	2746-01-B51 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	27000	B	5.8	2746-01-B50 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	27000	B	6	2746-01-B51 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	28000	B	5.6	2746-01-B52 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	28000	B	5.7	2746-02-B01 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	29000	B	6	2746-01-B49 (6.5-13)D	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	30000	B	5.6	2746-01-B49 (6.5-13)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	31000	B	5.5	2746-01-B52 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	35000	B	5.6	2746-01-B62 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	37000	B	5.5	2746-02-B01 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-321778/1-A	Solid	Magnesium	7.59	9600	B	5.6	2746-01-B63 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.55	B	0.55	2746-02-B01 (12-18)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.62	B	0.58	2746-02-B01 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	1	B	0.57	2746-02-B01 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.29	J B	0.56	2746-01-B62 (0-7)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.29	J B	0.57	2746-01-B61 (0-6)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.3	J B	0.57	2746-01-B50 (0-6.5)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.34	J B	0.56	2746-01-B62 (14-20)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.37	J B	0.56	2746-01-B49 (6.5-13)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.38	J B	0.56	2746-01-B52 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.4	J B	0.56	2746-01-B63 (0-8)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.48	J B	0.56	2746-01-B53 (0-7)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.49	J B	0.58	2746-01-B50 (6.5-13)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.52	J B	0.53	2746-01-B64 (0-8)	mg/Kg	U Flag
SW6010B	MB 500-321778/1-A	Solid	Selenium	0.645	0.57	J B	0.58	2746-01-B62 (7-14)	mg/Kg	U Flag
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	13000	B	11	2746-01-B65 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	16000	B	11	2746-01-B67 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	22000	B	12	2746-01-B71 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	27000	B	12	2746-01-B72 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	33000	B	12	2746-18-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	35000	B	12	2746-18-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	50000	B	110	2746-01-B69 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	55000	B	120	2746-01-B74 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	64000	B	120	2746-01-B68 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	65000	B	110	2746-01-B70 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	70000	B	110	2746-01-B68 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	9200	B	11	2746-01-B73 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Calcium	8.9	32000	B F2	12	2746-01-B75 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	15	B	0.54	2746-01-B67 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	15	B	0.55	2746-01-B68 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	16	B	0.56	2746-01-B73 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	16	B	0.6	2746-01-B72 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	17	B	0.54	2746-01-B70 (0-2)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	17	B	0.57	2746-01-B65 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	17	B	0.58	2746-01-B71 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	17	B	0.59	2746-01-B74 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	17	B	0.6	2746-18-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	19	B	0.58	2746-01-B75 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	19	B	0.61	2746-18-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	20	B	0.58	2746-01-B68 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Chromium	0.488	22	B	0.57	2746-01-B69 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	12000	B	12	2746-01-B71 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	14000	B	12	2746-01-B72 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	15000	B	11	2746-01-B65 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	15000	B	11	2746-01-B67 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	15000	B	12	2746-18-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	16000	B	11	2746-01-B70 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	16000	B	11	2746-01-B73 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	16000	B	12	2746-01-B74 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	18000	B	11	2746-01-B68 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	18000	B	11	2746-01-B75 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	18000	B	11	2746-01-B69 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	18000	B	12	2746-18-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Iron	13.4	20000	B	12	2746-01-B68 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	10000	B	5.4	2746-01-B67 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	15000	B	5.8	2746-01-B71 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	17000	B	6	2746-01-B72 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	19000	B	5.8	2746-01-B75 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	20000	B	6.1	2746-18-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	21000	B	5.7	2746-01-B69 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	21000	B	5.8	2746-01-B68 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	21000	B	6	2746-18-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	22000	B	5.4	2746-01-B70 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	24000	B	5.9	2746-01-B74 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	27000	B	5.5	2746-01-B68 (0-5)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	7500	B	5.6	2746-01-B73 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-321953/1-A	Solid	Magnesium	4.52	9900	B	5.7	2746-01-B65 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	100000	B	100	2746-01-B83 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	190000	B	110	2746-01-B76 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	22000	B	9.1	2746-01A-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	25000	B	11	2746-01-B81 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	2600	B	13	2746-01-B78 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	3000	B	11	2746-01A-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	31000	B	12	2746-01-B84 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	49000	B	100	2746-01-B77 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	63000	B	120	2746-01-B84 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	64000	B	110	2746-01-B80 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	66000	B	100	2746-01-B84 (12-18)D	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	66000	B	96	2746-01-B86 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	66000	B	99	2746-01-B85 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	67000	B	100	2746-01-B85 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	6900	B	9.6	2746-01-B79 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	75000	B	97	2746-01-B84 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	76000	B	120	2746-01-B86 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Calcium	7.76	91000	B	100	2746-01-B82 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	13	B	0.49	2746-01-B84 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	14	B	0.52	2746-01-B82 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	14	B	0.58	2746-01-B86 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	16	B	0.45	2746-01A-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	16	B	0.58	2746-01-B84 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	17	B	0.48	2746-01-B86 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	17	B	0.5	2746-01-B85 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.5	2746-01-B83 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.48	2746-01A-B05 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.5	2746-01-B84 (12-18)D	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.51	2746-01-B77 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.52	2746-01-B85 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.56	2746-01-B80 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	18	B	0.6	2746-01-B84 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	21	B	0.54	2746-01A-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	21	B	0.54	2746-01-B81 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	23	B	0.48	2746-01-B79 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	24	B	0.63	2746-01-B78 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Chromium	0.864	40	B	0.57	2746-01-B76 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	10000	B	4.5	2746-01A-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	110000	B	57	2746-01-B76 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	16000	B	5.4	2746-01-B81 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	16000	B	5.8	2746-01-B84 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	18000	B	5.1	2746-01-B77 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	20000	B	4.8	2746-01A-B05 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	23000	B	5.6	2746-01-B80 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	24000	B	5	2746-01-B85 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	24000	B	4.8	2746-01-B86 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	24000	B	5	2746-01-B85 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	24000	B	6	2746-01-B84 (12-18)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	25000	B	5.2	2746-01-B85 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	29000	B	5	2746-01-B83 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	30000	B	4.9	2746-01-B84 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	32000	B	5.8	2746-01-B86 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	37000	B	5.2	2746-01-B82 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	4800	B	5.4	2746-01A-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	4900	B	6.3	2746-01-B78 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Magnesium	6.81	7900	B	4.8	2746-01-B79 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	1200	B	52	2746-01-B82 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	1400	B	50	2746-01-B83 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	160	B	49	2746-01-B84 (6-12)	mg/Kg	U Flag
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	1600	B	54	2746-01-B81 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	180	B	60	2746-01-B84 (12-18)	mg/Kg	U Flag
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	190	B	50	2746-01-B84 (12-18)D	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	2000	B	54	2746-01A-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	210	B	50	2746-01-B85 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	2100	B	63	2746-01-B78 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	220	B	58	2746-01-B86 (6-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	2300	B	45	2746-01A-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	2500	B	48	2746-01-B79 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	2600	B	51	2746-01-B77 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	330	B	48	2746-01-B86 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	430	B	52	2746-01-B85 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	610	B	58	2746-01-B84 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	810	B	56	2746-01-B80 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	910	B	57	2746-01-B76 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322038/1-A	Solid	Sodium	37.2	860	B F1	48	2746-01A-B05 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Cadmium	0.0721	0.37	B	0.11	2746-01-B23 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Cadmium	0.0721	0.44	B	0.11	2746-01-B44 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Cadmium	0.0721	0.032	J B	0.09	2746-61-B01 (0-5)	mg/Kg	U Flag
SW6010B	MB 500-322299/1-A	Solid	Cadmium	0.0721	0.037	J B	0.097	2746-01-B19 (0-2)	mg/Kg	U Flag
SW6010B	MB 500-322299/1-A	Solid	Cadmium	0.0721	0.082	J B	0.12	2746-01-B22 (0-2)	mg/Kg	U Flag
SW6010B	MB 500-322299/1-A	Solid	Cadmium	0.0721	0.1	J B	0.11	2746-01-B45 (0-7)	mg/Kg	U Flag
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	14	B	0.49	2746-01-B43 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	15	B	0.58	2746-01-B46 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	16	B	0.51	2746-01-B43 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	16	B	0.56	2746-01-B48 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	17	B	0.51	2746-01-B46 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	17	B	0.53	2746-01-B23 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	17	B	0.54	2746-01-B45 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	17	B	0.58	2746-01-B44 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	18	B	0.5	2746-01-B47 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	18	B	0.46	2746-01-B45 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	18	B	0.5	2746-01-B87 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	18	B	0.53	2746-01-B47 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	18	B	0.57	2746-01-B87 (14-20)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	18	B	0.58	2746-01-B87 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	19	B	0.59	2746-01-B22 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	19	B	0.48	2746-01-B19 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	19	B	0.59	2746-01-B48 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	21	B	0.54	2746-01-B44 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Chromium	1.07	5.2	B	0.45	2746-61-B01 (0-5)	mg/Kg	U Flag
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	14000	B	9.8	2746-01-B43 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	15000	B	12	2746-01-B46 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	17000	B	9.3	2746-01-B45 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	17000	B	10	2746-01-B46 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	17000	B	9.3	2746-01-B45 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	12	2746-01-B22 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	11	2746-01-B23 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	12	2746-01-B44 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	11	2746-01-B45 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	10	2746-01-B47 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	12	2746-01-B48 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	11	2746-01-B48 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	11	2746-01-B87 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	18000	B	12	2746-01-B87 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	19000	B	10	2746-01-B87 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	19000	B	11	2746-01-B47 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	19000	B	9.7	2746-01-B19 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	21000	B	11	2746-01-B44 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Iron	15.3	5500	B	9	2746-61-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	1200	B	49	2746-01-B43 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	1300	B	54	2746-01-B44 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	1500	B	54	2746-01-B45 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	190	B	57	2746-01-B87 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	200	B	50	2746-01-B47 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	210	B	58	2746-01-B87 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	2100	B	53	2746-01-B23 (0-2)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	220	B	58	2746-01-B44 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	230	B	51	2746-01-B46 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	2400	B	59	2746-01-B22 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	280	B	51	2746-01-B43 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	290	B	50	2746-01-B87 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	330	B	45	2746-61-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	330	B	56	2746-01-B48 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	350	B	53	2746-01-B47 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	530	B	46	2746-01-B45 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	530	B	58	2746-01-B46 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	590	B	59	2746-01-B48 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322299/1-A	Solid	Sodium	29	900	B	48	2746-01-B19 (0-2)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	140000	B	110	2746-02-B02 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	1500	B	11	2746-01-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	15000	B	10	2746-01-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	20000	B	11	2746-01-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	26000	B	10	2746-02-B02 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	30000	B	11	2746-01-B59 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	40000	B	110	2746-01-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	49000	B	120	2746-01-B37 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	52000	B	110	2746-01-B59 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	60000	B	110	2746-01-B60 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	61000	B	110	2746-01-B60 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	61000	B	110	2746-02-B02 (13-19)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	62000	B	120	2746-01-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	64000	B	110	2746-01-B59 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	64000	B	110	2746-01-B60 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	66000	B	110	2746-01-B59 (0-7)D	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	69000	B	110	2746-01-B58 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	70000	B	100	2746-01-B04 (8-17)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	73000	B	120	2746-01-B58 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	77000	B	120	2746-01-B02 (8-15)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322527/1-A	Solid	Calcium	11.4	79000	B	120	2746-01-B03 (8-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	10	B	0.55	2746-01-B59 (0-7)D	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	11	B	0.51	2746-01-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	11	B	0.53	2746-01-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	12	B	0.52	2746-02-B02 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	12	B	0.54	2746-01-B59 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	14	B	0.52	2746-01-B04 (8-17)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	14	B	0.54	2746-01-B60 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	14	B	0.58	2746-01-B03 (8-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	15	B	0.53	2746-01-B01 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	15	B	0.56	2746-01-B58 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	16	B	0.53	2746-01-B59 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	16	B	0.53	2746-02-B02 (13-19)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	16	B	0.54	2746-01-B60 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	17	B	0.55	2746-01-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	17	B	0.59	2746-01-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	18	B	0.59	2746-01-B02 (8-15)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	19	B	0.59	2746-01-B37 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	20	B	0.57	2746-01-B59 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	6.4	B	0.53	2746-01-B60 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	8.9	B	0.53	2746-02-B02 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Chromium	1	9.4	B	0.58	2746-01-B58 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	11000	B	11	2746-01-B59 (0-7)D	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	12000	B	10	2746-01-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	12000	B	11	2746-01-B03 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	13000	B	11	2746-01-B60 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	14000	B	12	2746-01-B03 (8-12)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	15000	B	10	2746-01-B04 (8-17)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	15000	B	11	2746-01-B59 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	16000	B	10	2746-02-B02 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	16000	B	10	2746-02-B02 (7-13)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	16000	B	11	2746-01-B04 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	17000	B	11	2746-01-B58 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	18000	B	11	2746-02-B02 (13-19)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	18000	B	12	2746-01-B37 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	19000	B	11	2746-01-B59 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	19000	B	12	2746-01-B02 (8-15)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	21000	B	12	2746-01-B01 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	26000	B	12	2746-01-B58 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	7100	B	11	2746-01-B60 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322527/1-A	Solid	Iron	12.6	8900	B	11	2746-02-B02 (0-7)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	14	B	0.56	2746-01-B28 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	14	B	0.58	2746-01-B24 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	15	B	0.52	2746-01-B25 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	16	B	0.53	2746-01-B26 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	18	B	0.56	2746-01-B26 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	19	B	0.48	2746-01-B32 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	19	B	0.58	2746-01-B34 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	20	B	0.51	2746-01-B29 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	20	B	0.55	2746-01-B27 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	21	B	0.51	2746-01-B31 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	21	B	0.58	2746-01-B36 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	21	B	0.6	2746-01-B29 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	22	B	0.58	2746-01-B29 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	23	B	0.47	2746-01-B35 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	24	B	0.62	2746-01-B33 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Chromium	1.39	25	B	0.6	2746-01-B30 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	10000	B	12	2746-01-B24 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	16000	B	10	2746-01-B25 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	16000	B	11	2746-01-B26 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	18000	B	11	2746-01-B26 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	18000	B	11	2746-01-B27 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	18000	B	11	2746-01-B28 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	18000	B	9.5	2746-01-B32 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	19000	B	10	2746-01-B29 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	19000	B	12	2746-01-B36 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	20000	B	12	2746-01-B29 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	20000	B	12	2746-01-B34 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	21000	B	10	2746-01-B31 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	22000	B	12	2746-01-B33 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	22000	B	9.3	2746-01-B30 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	22000	B	9.3	2746-01-B35 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Iron	19.5	23000	B	12	2746-01-B29 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	120	B	0.56	2746-01-B28 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	120	B	0.58	2746-01-B24 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	190	B	0.6	2746-01-B30 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	230	B	0.56	2746-01-B26 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	230	B	0.62	2746-01-B33 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	240	B	0.48	2746-01-B32 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	240	B	0.58	2746-01-B29 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	280	B	0.51	2746-01-B29 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	300	B	0.53	2746-01-B26 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	330	B	0.6	2746-01-B29 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	360	B	0.58	2746-01-B34 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	430	B	0.47	2746-01-B35 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	450	B	0.55	2746-01-B27 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	490	B	0.52	2746-01-B25 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	500	B	0.51	2746-01-B31 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Manganese	0.387	300	F2 B	0.58	2746-01-B36 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	14	B	0.58	2746-01-B24 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	20	B	0.56	2746-01-B28 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	22	B	0.48	2746-01-B32 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	26	B	0.56	2746-01-B26 (0-8)D	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	27	B	0.58	2746-01-B34 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	28	B	0.52	2746-01-B25 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	28	B	0.53	2746-01-B26 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	29	B	0.51	2746-01-B31 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	32	B	0.58	2746-01-B29 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	34	B	0.55	2746-01-B27 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	34	B	0.62	2746-01-B33 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	35	B	0.51	2746-01-B29 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	35	B	0.6	2746-01-B30 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	38	B	0.6	2746-01-B29 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	45	B	0.47	2746-01-B35 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322600/1-A	Solid	Nickel	0.422	33	F1 F2 B	0.58	2746-01-B36 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	14	B	0.47	2746-01-B91 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	15	B	0.58	2746-01-B90 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	16	B	0.53	2746-01-B89 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	17	B	0.55	2746-01-B88 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	17	B	0.55	2746-01B-B03 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	17	B	0.57	2746-01B-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	18	B	0.47	2746-01-B96 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	18	B	0.55	2746-01B-B03 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	19	B	0.54	2746-01-B97 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	20	B	0.53	2746-01-B95 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Chromium	1.4	15	F2 B F1	0.49	2746-01B-B03 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	13000	B	9.4	2746-01-B91 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	15000	B	11	2746-01-B88 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	16000	B	11	2746-01-B89 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	17000	B	11	2746-01-B95 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	17000	B	11	2746-01B-B03 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	17000	B	9.7	2746-01B-B03 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	18000	B	11	2746-01-B97 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	18000	B	12	2746-01-B90 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	18000	B	9.4	2746-01-B96 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	19000	B	11	2746-01B-B03 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Iron	33.6	20000	B	11	2746-01B-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	23	B	0.47	2746-01-B91 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	29	B	0.55	2746-01-B88 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	30	B	0.53	2746-01-B89 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	30	B	0.55	2746-01B-B03 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	31	B	0.49	2746-01B-B03 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	32	B	0.53	2746-01-B95 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	33	B	0.58	2746-01-B90 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	35	B	0.47	2746-01-B96 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	35	B	0.54	2746-01-B97 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	36	B	0.55	2746-01B-B03 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322606/1-A	Solid	Nickel	0.456	37	B	0.57	2746-01B-B04 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	120000	B	110	2746-01-B105 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	15000	B	11	2746-01A-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	27000	B	11	2746-01A-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	60000	B	110	2746-01-B101 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	66000	B	110	2746-01-B106 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	67000	B	110	2746-01-B102 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	69000	B	120	2746-01-B103 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	71000	B	120	2746-01-B100 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	73000	B	110	2746-01-B98 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	73000	B	120	2746-01-B99 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	75000	B	120	2746-01-B100 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	82000	B	100	2746-01-B108 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	85000	B	110	2746-01-B107 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	88000	B	120	2746-01-B25 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	89000	B	100	2746-01-B104 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Calcium	13.1	79000	B F2	110	2746-01-B25 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	12	B	0.52	2746-01-B108 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	12	B	0.54	2746-01-B105 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	15	B	0.58	2746-01-B25 (14-20)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	16	B	0.56	2746-01-B25 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	16	B	0.55	2746-01-B98 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	16	B	0.57	2746-01-B107 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	16	B	0.6	2746-01-B100 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	17	B	0.57	2746-01A-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	17	B	0.56	2746-01-B101 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	17	B	0.56	2746-01-B102 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	17	B	0.57	2746-01-B106 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	17	B	0.58	2746-01-B103 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	17	B	0.59	2746-01-B100 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	18	B	0.61	2746-01-B99 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	9.5	B	0.52	2746-01-B104 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Chromium	0.534	16	F1 B	0.56	2746-01-B25 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	12000	B	10	2746-01-B108 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	12000	B	11	2746-01-B105 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	15000	B	11	2746-01A-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	15000	B	12	2746-01-B100 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	16000	B	11	2746-01-B107 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	16000	B	10	2746-01-B104 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	16000	B	11	2746-01-B98 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	16000	B	12	2746-01-B25 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	17000	B	11	2746-01-B101 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	17000	B	11	2746-01-B102 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	17000	B	11	2746-01-B106 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	17000	B	12	2746-01-B99 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	18000	B	12	2746-01-B100 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	18000	B	11	2746-01A-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	18000	B	12	2746-01-B103 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Iron	10.4	16000	F2 B	11	2746-01-B25 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	20000	B	5.7	2746-01A-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	27000	B	5.6	2746-01-B102 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	29000	B	5.6	2746-01-B101 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	29000	B	5.7	2746-01-B106 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	30000	B	5.8	2746-01-B103 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	31000	B	5.9	2746-01-B100 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	32000	B	5.5	2746-01-B98 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	32000	B	6	2746-01-B100 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	33000	B	6.1	2746-01-B99 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	37000	B	5.8	2746-01-B25 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	38000	B	5.7	2746-01-B107 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	40000	B	5.2	2746-01-B104 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	40000	B	5.2	2746-01-B108 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	53000	B	5.4	2746-01-B105 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	8100	B	5.7	2746-01A-B02 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322729/1-A	Solid	Magnesium	5.41	31000	F2 B	5.6	2746-01-B25 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	110000	B	120	2746-01-B21 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	170000	B	94	2746-01B-B02 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	58000	B	91	2746-01B-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	60000	B	110	2746-01-B20 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	62000	B	99	2746-01B-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	63000	B	120	2746-01-B41 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	64000	B	91	2746-01-B20 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	66000	B	97	2746-01-B42 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	68000	B	110	2746-01-B42 (6-11)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	68000	B	99	2746-01-B20 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	69000	B	120	2746-01-B39 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	70000	B	110	2746-01-B38 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	72000	B	100	2746-01-B40 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	79000	B	120	2746-01-B21 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Calcium	21.8	87000	B	120	2746-01-B41 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	12	B	0.6	2746-01-B21 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	13	B	0.45	2746-01-B20 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	15	B	0.54	2746-01-B42 (6-11)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	16	B	0.46	2746-01B-B01 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	16	B	0.49	2746-01-B42 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	16	B	0.5	2746-01B-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	16	B	0.54	2746-01-B20 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	16	B	0.59	2746-01-B41 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	17	B	0.5	2746-01-B40 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	17	B	0.58	2746-01-B41 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	18	B	0.58	2746-01-B39 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	18	B	0.61	2746-01-B21 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	19	B	0.54	2746-01-B38 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	20	B	0.49	2746-01-B20 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Chromium	1.05	5.5	B	0.47	2746-01B-B02 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	13000	B	12	2746-01-B21 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	16000	B	9.1	2746-01-B20 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	16000	B	10	2746-01-B40 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	16000	B	9.1	2746-01B-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	16000	B	9.7	2746-01-B42 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	17000	B	12	2746-01-B21 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	17000	B	11	2746-01-B20 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	17000	B	12	2746-01-B41 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	17000	B	9.9	2746-01B-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	18000	B	11	2746-01-B38 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	18000	B	12	2746-01-B39 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	18000	B	11	2746-01-B42 (6-11)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	18000	B	12	2746-01-B41 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	18000	B	9.9	2746-01-B20 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Iron	15.8	3600	B	9.4	2746-01B-B02 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	26000	B	5.4	2746-01-B20 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	26000	B	4.5	2746-01-B20 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	26000	B	4.6	2746-01B-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	26000	B	5.4	2746-01-B38 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	28000	B	4.9	2746-01-B42 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	28000	B	5.4	2746-01-B42 (6-11)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	28000	B	5.8	2746-01-B39 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	29000	B	5	2746-01B-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	29000	B	5.9	2746-01-B41 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	30000	B	5	2746-01-B40 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	31000	B	4.9	2746-01-B20 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	33000	B	6.1	2746-01-B21 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	34000	B	5.8	2746-01-B41 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	49000	B	6	2746-01-B21 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Magnesium	10.5	99000	B	47	2746-01B-B02 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	1000	B	50	2746-01-B40 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	1000	B	58	2746-01-B41 (0-5)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	160	B	45	2746-01-B20 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	170	B	49	2746-01-B20 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	210	B	54	2746-01-B20 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	210	B	61	2746-01-B21 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	230	B	54	2746-01-B42 (6-11)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	420	B	59	2746-01-B41 (5-10)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	430	B	60	2746-01-B21 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	510	B	54	2746-01-B38 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	590	B	46	2746-01B-B01 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	660	B	58	2746-01-B39 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	820	B	49	2746-01-B42 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	830	B	50	2746-01B-B01 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-322859/1-A	Solid	Sodium	13.5	580	F1 B	47	2746-01B-B02 (0-3)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	21000	B	12	2746-01-B06 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	31000	B	11	2746-01-B05 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	8200	B	11	2746-01-B08 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	120000	B ^	110	2746-01-B07 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	21000	B ^	11	2746-01-B09 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	32000	B ^	11	2746-01-B09 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	57000	B ^	110	2746-01-B05 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	57000	B ^	110	2746-01-B07 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	61000	B ^	110	2746-01-B07 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	63000	B ^	110	2746-01-B05 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	64000	B ^	110	2746-01-B08 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	64000	B ^	120	2746-01-B09 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	65000	B ^	110	2746-01-B07 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	67000	B ^	110	2746-01-B07 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	76000	B ^	110	2746-01-B06 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	78000	B ^	110	2746-01-B05 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Calcium	11.7	92000	B ^	110	2746-01-B09 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	11	B	0.54	2746-01-B05 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	12	B	0.56	2746-01-B06 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	15	B	0.55	2746-01-B07 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	15	B	0.56	2746-01-B05 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	15	B	0.57	2746-01-B07 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	16	B	0.55	2746-01-B08 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	16	B	0.56	2746-01-B09 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	16	B	0.58	2746-01-B06 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	17	B	0.57	2746-01-B07 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	17	B	0.57	2746-01-B09 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	18	B	0.56	2746-01-B05 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	18	B	0.57	2746-01-B07 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	19	B	0.59	2746-01-B09 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	21	B	0.56	2746-01-B08 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	6.5	B	0.54	2746-01-B09 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	7.5	B	0.57	2746-01-B07 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Chromium	0.32	9.3	B	0.57	2746-01-B05 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	12000	B	11	2746-01-B07 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	13000	B	11	2746-01-B07 (0-8)D	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	14000	B	11	2746-01-B05 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	14000	B	11	2746-01-B07 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	15000	B	11	2746-01-B08 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	16000	B	11	2746-01-B06 (8-16)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	16000	B	11	2746-01-B08 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	16000	B	11	2746-01-B09 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	16000	B	12	2746-01-B06 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	18000	B	11	2746-01-B05 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	18000	B	11	2746-01-B05 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	18000	B	11	2746-01-B07 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	18000	B	11	2746-01-B07 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	18000	B	12	2746-01-B09 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	19000	B	11	2746-01-B09 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	8000	B	11	2746-01-B09 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323078/1-A	Solid	Iron	8.28	9300	B	11	2746-01-B05 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	100000	B	100	2746-01-B10 (6-11)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	16000	B	12	2746-01-B10 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	25000	B	10	2746-01-B11 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	50000	B	110	2746-01-B13 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	61000	B	110	2746-01-B13 (8-15)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	69000	B	110	2746-01-B12 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	70000	B	110	2746-01-B12 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	73000	B	100	2746-01-B11 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	73000	B	110	2746-01-B11 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	83000	B	110	2746-01-B12 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Calcium	10.9	93000	B	100	2746-01-B12 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	11	B	0.54	2746-01-B13 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	12	B	0.51	2746-01-B11 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	12	B	0.55	2746-01-B12 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	13	B	0.53	2746-01-B12 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	15	B	0.52	2746-01-B11 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	15	B	0.57	2746-01-B13 (8-15)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	17	B	0.56	2746-01-B11 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	17	B	0.57	2746-01-B12 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	28	B	0.59	2746-01-B10 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	4.9	B	0.52	2746-01-B10 (6-11)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B	MB 500-323092/1-A	Solid	Chromium	0.385	5.4	B	0.51	2746-01-B12 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	230	B	0.51	2746-01-B11 (0-7)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	320	B	0.52	2746-01-B11 (7-14)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	320	B	0.56	2746-01-B11 (14-20)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	330	B	0.59	2746-01-B10 (0-6)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	340	B	0.57	2746-01-B12 (16-24)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	370	B	0.57	2746-01-B13 (8-15)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	380	B	0.53	2746-01-B12 (0-8)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	430	B	0.52	2746-01-B10 (6-11)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	450	B	0.55	2746-01-B12 (24-30)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	460	B	0.51	2746-01-B12 (8-16)	mg/Kg	Not Qualified
SW6010B	MB 500-323092/1-A	Solid	Manganese	0.203	230	F2 B	0.54	2746-01-B13 (0-8)	mg/Kg	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.51	B	0.5	2746-01B-B03 (14-20)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.52	B	0.5	2746-01B-B04 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.58	B	0.5	2746-01-B88 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.62	B	0.5	2746-01-B89 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.62	B	0.5	2746-01-B97 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.64	B	0.5	2746-01B-B03 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.65	B	0.5	2746-01-B91 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.65	B	0.5	2746-01B-B03 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.075	J B	0.5	2746-01-B95 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.1	J B	0.5	2746-01-B96 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Boron	0.0549	0.12	J B	0.5	2746-01-B90 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.041	J B	0.5	2746-01-B95 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.082	J B	0.5	2746-01B-B03 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.1	J B	0.5	2746-01B-B03 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.15	J B	0.5	2746-01-B90 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.17	J B	0.5	2746-01B-B04 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.21	J B	0.5	2746-01-B89 (0-8)	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.24	J B	0.5	2746-01-B91 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.24	J B	0.5	2746-01B-B03 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.26	J B	0.5	2746-01-B96 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.3	J B	0.5	2746-01-B88 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322353/1-B	Solid	Zinc	0.319	0.48	J B	0.5	2746-01-B97 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.5	B	0.5	2746-01-B25 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.5	B	0.5	2746-01-B29 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.5	B	0.5	2746-01-B34 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.53	B	0.5	2746-01-B30 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.53	B	0.5	2746-01-B32 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.54	B	0.5	2746-01-B27 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.57	B	0.5	2746-01-B33 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.58	B	0.5	2746-01-B35 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.6	B	0.5	2746-01A-B02 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.61	B	0.5	2746-01-B26 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.62	B	0.5	2746-01-B26 (0-8)D	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.63	B	0.5	2746-01-B25 (7-14)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.64	B	0.5	2746-01-B25 (14-20)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.92	B	0.5	2746-01-B29 (14-20)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.16	J B	0.5	2746-01-B28 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.36	J B	0.5	2746-01-B24 (0-5)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.38	J B	0.5	2746-01-B36 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.42	J B	0.5	2746-01A-B01 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.43	J B	0.5	2746-01-B31 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Barium	0.0515	0.49	J B	0.5	2746-01-B29 (0-7)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	2	B	2	2746-01-B25 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	0.7	J B	2	2746-01-B36 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	0.73	J B	2	2746-01-B33 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	0.81	J B	2	2746-01-B35 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	0.95	J B	2	2746-01-B32 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	0.96	J B	2	2746-01-B34 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1	J B	2	2746-01-B30 (0-8)	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.1	J B	2	2746-01-B24 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.1	J B	2	2746-01-B25 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.1	J B	2	2746-01-B26 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.1	J B	2	2746-01-B27 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.1	J B	2	2746-01-B29 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.2	J B	2	2746-01-B25 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.3	J B	2	2746-01-B29 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.3	J B	2	2746-01-B31 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.4	J B	2	2746-01-B29 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.6	J B	2	2746-01A-B02 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.6	J B	2	2746-01-B28 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Boron	1.08	1.3	J F1 B	2	2746-01A-B01 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Iron	0.325	0.38	J B	0.4	2746-01-B28 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.028	B	0.025	2746-01-B29 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.037	B	0.025	2746-01-B25 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.043	B	0.025	2746-01-B25 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.065	B	0.025	2746-01-B29 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.01	J B	0.025	2746-01-B32 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.011	J B	0.025	2746-01A-B02 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.012	J B	0.025	2746-01-B27 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.012	J B	0.025	2746-01-B30 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.013	J B	0.025	2746-01-B26 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.014	J B	0.025	2746-01-B25 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.014	J B	0.025	2746-01-B31 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.015	J B	0.025	2746-01-B24 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.015	J B	0.025	2746-01-B26 (0-8)D	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.02	J B	0.025	2746-01-B28 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.02	J B	0.025	2746-01-B29 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Nickel	0.0164	0.021	J B	0.025	2746-01A-B01 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.52	B	0.5	2746-01-B34 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.63	B	0.5	2746-01-B25 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	1.4	B	0.5	2746-01-B31 (0-8)	mg/L	Not Qualified

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.1	J B	0.5	2746-01-B33 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.12	J B	0.5	2746-01-B35 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.15	J B	0.5	2746-01A-B01 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.15	J B	0.5	2746-01-B32 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.17	J B	0.5	2746-01A-B02 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.19	J B	0.5	2746-01-B26 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.2	J B	0.5	2746-01-B27 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.2	J B	0.5	2746-01-B30 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.21	J B	0.5	2746-01-B25 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.22	J B	0.5	2746-01-B36 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.23	J B	0.5	2746-01-B29 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.25	J B	0.5	2746-01-B29 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.28	J B	0.5	2746-01-B29 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.3	J B	0.5	2746-01-B28 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.33	J B	0.5	2746-01-B24 (0-5)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.33	J B	0.5	2746-01-B25 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322498/1-C	Solid	Zinc	0.17	0.49	J B	0.5	2746-01-B26 (0-8)D	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.2	B	0.5	2746-01-B100 (0-8)D	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.3	B	0.5	2746-01-B101 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.5	B	0.5	2746-01-B103 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.7	B	0.5	2746-01-B102 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.7	B	0.5	2746-01-B104 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.8	B	0.5	2746-01-B107 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.9	B	0.5	2746-01-B105 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	1.9	B	0.5	2746-01-B99 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	2	B	0.5	2746-01-B106 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	2	B	0.5	2746-01-B108 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	2.1	B	0.5	2746-01-B98 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Boron	0.488	2.6	B	0.5	2746-01-B100 (0-8)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.53	B	0.5	2746-01-B100 (0-8)D	mg/L	Not Qualified
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.16	J B	0.5	2746-01-B105 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.19	J B	0.5	2746-01-B101 (0-8)	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.2	J B	0.5	2746-01-B98 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.2	J B	0.5	2746-01-B104 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.21	J B	0.5	2746-01-B103 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.22	J B	0.5	2746-01-B106 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.25	J B	0.5	2746-01-B102 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.28	J B	0.5	2746-01-B100 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.35	J B	0.5	2746-01-B108 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.42	J B	0.5	2746-01-B99 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322499/1-C	Solid	Zinc	0.0881	0.48	J B	0.5	2746-01-B107 (0-8)	mg/L	Not Qualified
SW6010B_SPLP	LB 500-322502/1-B	Solid	Boron	0.0776	1.1	J B	2	2746-01-B25 (14-20)	mg/L	Not Qualified
SW6010B_SPLP	LB 500-322503/1-B	Solid	Boron	0.952	0.93	J B	2	2746-01-B106 (0-8)	mg/L	U Flag
SW6010B_SPLP	LB 500-322503/1-B	Solid	Boron	0.952	1.1	J B	2	2746-01-B100 (0-8)	mg/L	U Flag
SW6010B_SPLP	LB 500-322503/1-B	Solid	Boron	0.952	1.1	J B	2	2746-01-B108 (0-8)	mg/L	U Flag
SW6010B_SPLP	LB 500-322503/1-B	Solid	Boron	0.952	1.2	J F1 B	2	2746-01-B98 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.02	J B	0.5	2746-01-B20 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.021	J B	0.5	2746-01-B42 (6-11)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.023	J B	0.5	2746-01-B20 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.023	J B	0.5	2746-01-B20 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.025	J B	0.5	2746-01-B21 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.027	J B	0.5	2746-01B-B01 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.027	J B	0.5	2746-01B-B01 (0-8)D	mg/L	U Flag
SW6010B_TCLP	LB 500-322655/1-B	Solid	Zinc	0.117	0.029	J B	0.5	2746-01-B38 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.61	B	0.5	2746-01-B07 (8-16)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.76	B	0.5	2746-01-B07 (24-30)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.98	B	0.5	2746-01-B08 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	1	B	0.5	2746-01-B07 (16-24)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	1.1	B	0.5	2746-01-B09 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.039	J B	0.5	2746-01-B06 (8-16)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.046	J B	0.5	2746-01-B09 (24-30)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.048	J B	0.5	2746-01-B05 (24-30)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.063	J B	0.5	2746-01-B07 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.12	J B	0.5	2746-01-B07 (0-8)D	mg/L	U Flag

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Units	Sample Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.14	J B	0.5	2746-01-B09 (8-16)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.21	J B	0.5	2746-01-B06 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.22	J B	0.5	2746-01-B05 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.31	J B	0.5	2746-01-B05 (16-24)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.33	J B	0.5	2746-01-B09 (16-24)	mg/L	U Flag
SW6010B_TCLP	LB 500-323088/1-D	Solid	Zinc	0.281	0.42	J B	0.5	2746-01-B08 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	5.5	B	0.5	2746-01-B10 (0-6)	mg/L	Not Qualified
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.059	J B	0.5	2746-01-B11 (7-14)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.072	J B	0.5	2746-01-B12 (24-30)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.083	J B	0.5	2746-01-B13 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.095	J B	0.5	2746-01-B12 (16-24)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.11	J B	0.5	2746-01-B11 (14-20)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.12	J B	0.5	2746-01-B12 (0-8)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.14	J B	0.5	2746-01-B11 (0-7)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.15	J B	0.5	2746-01-B10 (6-11)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.23	J B	0.5	2746-01-B12 (8-16)	mg/L	U Flag
SW6010B_TCLP	LB 500-323096/1-B	Solid	Zinc	0.135	0.27	J B	0.5	2746-01-B13 (8-15)	mg/L	U Flag
SW6010B_SPLP	LB 500-323287/1-B	Solid	Zinc	0.0301	3	B	0.1	2746-01-B10 (0-6)	mg/L	Not Qualified

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	2746-01-B02 (8-15)	SAMP	Phenol-d5	112	31	110	1	None	2
SW8270D	2746-01-B02 (8-15)	SAMP	Terphenyl-d14	145	36	134	1	None	2
SW8270D	2746-01-B03 (0-8)	SAMP	Phenol-d5	111	31	110	1	None	1
SW8270D	2746-01-B19 (0-2)	SAMP	Terphenyl-d14	159	36	134	1	None	1
SW8270D	2746-01-B22 (0-2)	SAMP	Terphenyl-d14	141	36	134	1	None	1
SW8270D	2746-01-B23 (0-2)	SAMP	Terphenyl-d14	184	36	134	1	None	1
SW8270D	2746-01-B23 (0-2)	DL	2,4,6-Tribromophenol	0	35	137	20	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	2,4,6-Tribromophenol	0	35	137	20	None- Diluted Out	6
SW8270D	2746-01-B23 (0-2)	DL	2-Fluorobiphenyl	0	25	119	20	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	2-Fluorobiphenyl	0	25	119	20	None- Diluted Out	6

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	2746-01-B23 (0-2)	DL	2-Fluorophenol	0	25	110	20	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	2-Fluorophenol	0	25	110	20	None- Diluted Out	6
SW8270D	2746-01-B23 (0-2)	DL	Nitrobenzene-d5	0	25	115	20	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	Nitrobenzene-d5	0	25	115	20	None- Diluted Out	6
SW8270D	2746-01-B23 (0-2)	DL	Phenol-d5	0	31	110	20	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	Phenol-d5	0	31	110	20	None- Diluted Out	6
SW8270D	2746-01-B23 (0-2)	DL	Phenol-d5	118	31	110	10	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	Phenol-d5	118	31	110	10	None- Diluted Out	6
SW8270D	2746-01-B23 (0-2)	DL	Terphenyl-d14	0	36	134	20	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	Terphenyl-d14	0	36	134	20	None- Diluted Out	6
SW8270D	2746-01-B23 (0-2)	DL	Terphenyl-d14	187	36	134	10	None- Diluted Out	2
SW8270D	2746-01-B23 (0-2)	DL	Terphenyl-d14	187	36	134	10	None- Diluted Out	6
SW8270D	2746-01-B43 (7-14)	SAMP	Terphenyl-d14	149	36	134	1	None	1
SW8270D	2746-01-B45 (0-7)	SAMP	Phenol-d5	111	31	110	1	None	1
SW8270D	2746-01-B46 (5-10)	SAMP	Phenol-d5	114	31	110	1	None	1
SW8270D	2746-01-B47 (0-7)	SAMP	2-Fluorophenol	112	25	110	1	None	1
SW8270D	2746-01-B48 (7-13)	SAMP	Phenol-d5	112	31	110	1	None	2
SW8270D	2746-01-B48 (7-13)	SAMP	Terphenyl-d14	136	36	134	1	None	2
SW8270D	2746-01-B49 (6.5-13)	SAMP	2,4,6-Tribromophenol	34	35	137	1	None	1
SW8270D	2746-01-B52 (0-6)	SAMP	2,4,6-Tribromophenol	25	35	137	1	None	1
SW8270D	2746-01-B52 (6-12)	SAMP	2,4,6-Tribromophenol	29	35	137	1	None	1
SW8270D	2746-01-B53 (0-7)	MSD	Phenol-d5	17	31	110	1	None	1
SW8270D	2746-01-B57 (0-6)	SAMP	2,4,6-Tribromophenol	23	35	137	1	None	1
SW8270D	2746-01-B58 (8-16)	SAMP	2-Fluorophenol	111	25	110	1	None	1
SW8270D	2746-01-B59 (0-7)D	SAMP	Phenol-d5	115	31	110	1	None	1
SW8270D	2746-01-B60 (0-7)	SAMP	2-Fluorophenol	113	25	110	1	J/UJ Flag	3
SW8270D	2746-01-B60 (0-7)	SAMP	Phenol-d5	125	31	110	1	J/UJ Flag	3
SW8270D	2746-01-B60 (0-7)	SAMP	Terphenyl-d14	165	36	134	1	J/UJ Flag	3
SW8270D	2746-01-B60 (7-14)	SAMP	2-Fluorophenol	111	25	110	1	None	1
SW8270D	2746-01-B74 (0-8)	SAMP	2-Fluorobiphenyl	126	25	119	1	None	1
SW8270D	2746-01-B87 (0-7)	SAMP	Phenol-d5	114	31	110	1	None	1
SW8270D	2746-01-B87 (0-7)	MSD	Terphenyl-d14	159	36	134	1	None	1
SW8270D	2746-01-B87 (0-7)	MS	Terphenyl-d14	176	36	134	1	None	1

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	2746-01-B87 (7-14)	SAMP	Phenol-d5	111	31	110	1	None	1
SW8270D	2746-01-G03	SAMP	Terphenyl-d14	156	59	150	1	None	1
SW8270D	2746-02-B02 (0-7)	SAMP	Phenol-d5	112	31	110	1	None	1
SW8270D	2746-02-B02 (0-7)	MSD	2-Fluorophenol	120	25	110	1	None	3
SW8270D	2746-02-B02 (0-7)	MSD	Phenol-d5	120	31	110	1	None	3
SW8270D	2746-02-B02 (0-7)	MSD	Terphenyl-d14	196	36	134	1	None	3
SW8270D	2746-02-B02 (0-7)	MS	2-Fluorophenol	112	25	110	1	None	3
SW8270D	2746-02-B02 (0-7)	MS	Phenol-d5	112	31	110	1	None	3
SW8270D	2746-02-B02 (0-7)	MS	Terphenyl-d14	180	36	134	1	None	3
SW8270D	2746-02-B02 (7-13)	SAMP	2-Fluorophenol	117	25	110	1	None	1
SW8270D	2746-18-B01 (0-8)	DL	Terphenyl-d14	150	36	134	5	None- Diluted Out	1
SW8270D	2746-18-B01 (0-8)D	DL	Terphenyl-d14	183	36	134	10	None- Diluted Out	1
SW8270D	2746-61-B01 (0-5)	SAMP	2-Fluorophenol	111	25	110	1	J/UJ Flag	3
SW8270D	2746-61-B01 (0-5)	SAMP	Phenol-d5	120	31	110	1	J/UJ Flag	3
SW8270D	2746-61-B01 (0-5)	SAMP	Terphenyl-d14	176	36	134	1	J/UJ Flag	3
SW8260B	2746-01-B46 (0-5)	SAMP	Toluene-d8 (Surr)	124	75	122	1	None	1

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	2746-01A-B01 (0-8)	SAMP	2-Fluorophenol	123	25	110	1	None	1
SW8270D	2746-01A-B02 (0-8)	SAMP	2-Fluorophenol	122	25	110	1	None	1
SW8270D	2746-01-B05 (0-8)	MSD	Terphenyl-d14	141	36	134	1	None	1
SW8270D	2746-01-B08 (7-14)	SAMP	Terphenyl-d14	135	36	134	1	None	1
SW8270D	2746-01-B09 (0-8)	SAMP	Terphenyl-d14	145	36	134	1	None	1
SW8270D	2746-01-B09 (16-24)	SAMP	Terphenyl-d14	140	36	134	1	None	1
SW8270D	2746-01-B10 (0-6)	SAMP	Terphenyl-d14	135	36	134	1	None	1
SW8270D	2746-01-B100 (0-8)	SAMP	Terphenyl-d14	185	36	134	1	None	1
SW8270D	2746-01-B100 (0-8)D	SAMP	Phenol-d5	112	31	110	1	None	2
SW8270D	2746-01-B100 (0-8)D	SAMP	Terphenyl-d14	231	36	134	1	None	2
SW8270D	2746-01-B101 (0-8)	SAMP	Terphenyl-d14	203	36	134	1	None	1
SW8270D	2746-01-B102 (0-8)	SAMP	Terphenyl-d14	195	36	134	1	None	1
SW8270D	2746-01-B103 (0-8)	SAMP	Terphenyl-d14	190	36	134	1	None	1
SW8270D	2746-01-B104 (0-8)	SAMP	Terphenyl-d14	185	36	134	1	None	1

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	2746-01-B105 (0-8)	SAMP	Terphenyl-d14	208	36	134	1	None	1
SW8270D	2746-01-B106 (0-8)	SAMP	Terphenyl-d14	189	36	134	1	None	1
SW8270D	2746-01-B107 (0-8)	SAMP	Terphenyl-d14	163	36	134	1	None	1
SW8270D	2746-01-B108 (0-8)	SAMP	Terphenyl-d14	158	36	134	1	None	1
SW8270D	2746-01-B14 (16-24)	SAMP	Terphenyl-d14	163	36	134	1	None	1
SW8270D	2746-01-B14 (8-16)	SAMP	Terphenyl-d14	154	36	134	1	None	1
SW8270D	2746-01-B15 (8-17)	SAMP	Terphenyl-d14	149	36	134	1	None	1
SW8270D	2746-01-B16 (24-30)	SAMP	Terphenyl-d14	156	36	134	1	None	1
SW8270D	2746-01-B16 (8-16)	SAMP	Terphenyl-d14	140	36	134	1	None	1
SW8270D	2746-01-B18 (0-8)	MSD	Terphenyl-d14	136	36	134	1	None	1
SW8270D	2746-01-B18 (0-8)	MS	Terphenyl-d14	160	36	134	1	None	1
SW8270D	2746-01-B24 (0-5)	SAMP	2-Fluorophenol	121	25	110	1	None	1
SW8270D	2746-01-B25 (0-7)	SAMP	2-Fluorophenol	124	25	110	1	J/UJ Flag	2
SW8270D	2746-01-B25 (0-7)	SAMP	Phenol-d5	111	31	110	1	J/UJ Flag	2
SW8270D	2746-01-B25 (14-20)	SAMP	2-Fluorophenol	114	25	110	1	None	1
SW8270D	2746-01-B25 (7-14)	SAMP	2-Fluorophenol	120	25	110	1	None	1
SW8270D	2746-01-B26 (0-8)	SAMP	2-Fluorophenol	111	25	110	1	None	1
SW8270D	2746-01-B26 (0-8)D	SAMP	2-Fluorophenol	117	25	110	1	None	1
SW8270D	2746-01-B27 (0-8)	SAMP	2-Fluorophenol	117	25	110	1	None	1
SW8270D	2746-01-B28 (0-8)	SAMP	2-Fluorophenol	113	25	110	1	None	1
SW8270D	2746-01-B29 (0-7)	SAMP	2-Fluorophenol	119	25	110	1	None	1
SW8270D	2746-01-B29 (14-20)	SAMP	2-Fluorophenol	116	25	110	1	None	1
SW8270D	2746-01-B29 (7-14)	SAMP	2-Fluorophenol	117	25	110	1	None	1
SW8270D	2746-01-B30 (0-8)	SAMP	2-Fluorophenol	117	25	110	1	None	1
SW8270D	2746-01-B31 (0-8)	SAMP	Terphenyl-d14	147	36	134	1	None	1
SW8270D	2746-01-B32 (0-8)	SAMP	2-Fluorophenol	114	25	110	1	None	1
SW8270D	2746-01-B33 (0-8)	SAMP	2-Fluorophenol	123	25	110	1	None	1
SW8270D	2746-01-B34 (0-8)	SAMP	2-Fluorophenol	112	25	110	1	None	1
SW8270D	2746-01-B35 (0-8)	SAMP	2-Fluorophenol	112	25	110	1	None	1
SW8270D	2746-01-B36 (0-8)	SAMP	2-Fluorophenol	121	25	110	1	None	1
SW8270D	2746-01-B36 (0-8)	MSD	Terphenyl-d14	177	36	134	1	None	1
SW8270D	2746-01-B36 (0-8)	MS	2-Fluorophenol	114	25	110	1	None	2

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Dil Fac	Sample Qual.	No Surrogates Out
SW8270D	2746-01-B36 (0-8)	MS	Terphenyl-d14	176	36	134	1	None	2
SW8270D	2746-01-B41 (0-5)	SAMP	Terphenyl-d14	220	36	134	1	None	1
SW8270D	2746-01-B42 (0-6)	SAMP	Terphenyl-d14	186	36	134	1	None	1
SW8270D	2746-01-B88 (0-8)	SAMP	Terphenyl-d14	182	36	134	1	None	1
SW8270D	2746-01-B89 (0-8)	SAMP	Terphenyl-d14	168	36	134	1	None	1
SW8270D	2746-01-B97 (0-8)	SAMP	2,4,6-Tribromophenol	19	35	137	1	None	1
SW8270D	2746-01-B98 (0-8)	SAMP	Terphenyl-d14	195	36	134	1	None	1
SW8270D	2746-01-B98 (0-8)	MSD	Terphenyl-d14	197	36	134	1	None	1
SW8270D	2746-01-B98 (0-8)	MS	Terphenyl-d14	188	36	134	1	None	1
SW8270D	2746-01-B99 (0-8)	SAMP	Terphenyl-d14	193	36	134	1	None	1
SW8270D	2746-01B-B01 (0-8)	SAMP	Terphenyl-d14	200	36	134	1	None	1
SW8270D	2746-01B-B01 (0-8)D	SAMP	Terphenyl-d14	190	36	134	1	None	1
SW8270D	2746-01B-B02 (0-3)	SAMP	Terphenyl-d14	198	36	134	5	None -Diluted Out	1
SW8270D	2746-01B-B02 (0-3)	MSD	Terphenyl-d14	193	36	134	5	None -Diluted Out	1
SW8270D	2746-01B-B02 (0-3)	MS	Terphenyl-d14	195	36	134	5	None -Diluted Out	1
SW8270D	2746-01B-B03 (7-14)	SAMP	2,4,6-Tribromophenol	29	35	137	1	None	1
SW8270D	2746-01B-B04 (0-8)	SAMP	Terphenyl-d14	173	36	134	1	None	1

Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01A-B05 (0-8)	MS	2,4-Dinitrophenol		3.19	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01A-B05 (0-8)	MSD	2,4-Dinitrophenol		3.16	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01A-B05 (0-8)	MS	4,6-Dinitro-2-methylphenol		3.19	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01A-B05 (0-8)	MSD	4,6-Dinitro-2-methylphenol		3.16	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01A-B05 (0-8)	MS	Butyl benzyl phthalate		1.6	125	1	49	121	F1	None - Nondetect
SW8270D	2746-01A-B05 (0-8)	MSD	Butyl benzyl phthalate		1.58	122	1	49	121	F1	None - Nondetect
SW8270D	2746-01A-B05 (0-8)	MS	Hexachlorocyclopentadiene		1.6	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01A-B05 (0-8)	MSD	Hexachlorocyclopentadiene		1.58	0	1	10	110	U F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01A-B05 (0-8)	MS	Pentachlorophenol		3.19	0	1	10	124	U F1	UJ Flag
SW8270D	2746-01A-B05 (0-8)	MS	Pyrene	0.021	1.6	122	1	46	114	F1	J Flag
SW8270D	2746-01A-B05 (0-8)	MSD	Pyrene	0.021	1.58	122	1	46	114	F1	J Flag
SW8270D	2746-01-B53 (0-7)	MSD	1,2,4-Trichlorobenzene		1.62	19	1	49	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	1,2-Dichlorobenzene		1.62	13	1	48	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	1,3-Dichlorobenzene		1.62	18	1	44	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	1,4-Dichlorobenzene		1.62	11	1	45	110	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2,2'-oxybis[1-chloropropane]		1.62	12	1	30	115	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2,4,6-Trichlorophenol		1.62	26	1	44	118		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2,4-Dichlorophenol		1.62	26	1	53	113		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2,4-Dimethylphenol		1.62	17	1	49	110	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MS	2,4-Dinitrophenol		3.17	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2,4-Dinitrophenol		3.24	0	1	10	110	U	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2,6-Dinitrotoluene		1.62	51	1	54	117		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2-Chloronaphthalene		1.62	42	1	52	114		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2-Chlorophenol		1.62	12	1	47	114	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2-Methylnaphthalene		1.62	15	1	48	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MS	2-Methylphenol		1.59	114	1	44	110	F1	None - Nondetect
SW8270D	2746-01-B53 (0-7)	MSD	2-Methylphenol		1.62	17	1	44	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	2-Nitrophenol		1.62	13	1	48	113	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	3 & 4 Methylphenol		1.62	18	1	37	122		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	3,3'-Dichlorobenzidine		1.62	24	1	26	128		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	4,6-Dinitro-2-methylphenol		3.24	0	1	10	110	U	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	4-Chloro-3-methylphenol		1.62	20	1	52	111	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Acenaphthylene		1.62	47	1	49	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Benzo[g,h,i]perylene		1.62	35	1	52	125		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Bis(2-chloroethoxy)methane		1.62	15	1	42	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Bis(2-chloroethyl)ether		1.62	9	1	32	110	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Dibenz(a,h)anthracene		1.62	40	1	48	134		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Dimethyl phthalate		1.62	47	1	56	113		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Hexachlorobutadiene		1.62	22	1	47	114		UJ Flag
SW8270D	2746-01-B53 (0-7)	MS	Hexachlorocyclopentadiene		1.59	0	1	10	110	U F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01-B53 (0-7)	MSD	Hexachlorocyclopentadiene		1.62	0	1	10	110	U	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Hexachloroethane		1.62	10	1	44	110	J	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Indeno[1,2,3-cd]pyrene		1.62	35	1	49	132		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Isophorone		1.62	20	1	35	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Naphthalene		1.62	17	1	48	110		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Nitrobenzene		1.62	12	1	35	113		UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	N-Nitrosodi-n-propylamine		1.62	16	1	24	123		UJ Flag
SW8270D	2746-01-B53 (0-7)	MS	Pentachlorophenol		3.17	0	1	10	124	U F1	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Pentachlorophenol		3.24	0	1	10	124	U	UJ Flag
SW8270D	2746-01-B53 (0-7)	MSD	Phenol		1.62	22	1	41	110		UJ Flag
SW8270D	2746-01-B87 (0-7)	MS	2,4-Dinitrophenol		3.22	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B87 (0-7)	MSD	2,4-Dinitrophenol		3.24	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B87 (0-7)	MS	4-Bromophenyl phenyl ether		1.61	120	1	55	113	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MSD	4-Chloroaniline		1.62	124	1	16	118	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MS	Benzo[b]fluoranthene		1.61	141	1	54	122	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MSD	Benzo[b]fluoranthene		1.62	127	1	54	122	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MS	Benzo[k]fluoranthene		1.61	141	1	44	137	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MS	Bis(2-ethylhexyl) phthalate		1.61	181	1	47	133	E F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MSD	Bis(2-ethylhexyl) phthalate		1.62	160	1	47	133	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MS	Butyl benzyl phthalate		1.61	179	1	49	121	E F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MSD	Butyl benzyl phthalate		1.62	158	1	49	121	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MS	Hexachlorocyclopentadiene		1.61	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B87 (0-7)	MSD	Hexachlorocyclopentadiene		1.62	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B87 (0-7)	MS	N-Nitrosodiphenylamine		1.61	126	1	52	111	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MSD	Pentachlorophenol		3.24	0	1	10	124	U F1	UJ Flag
SW8270D	2746-01-B87 (0-7)	MS	Phenol		1.61	115	1	41	110	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MSD	Phenol		1.62	111	1	41	110	F1	None - Nondetect
SW8270D	2746-01-B87 (0-7)	MS	Pyrene	0.02	1.61	163	1	46	114	F1	J Flag
SW8270D	2746-01-B87 (0-7)	MSD	Pyrene	0.02	1.62	144	1	46	114	F1	J Flag
SW8270D	2746-01-B92 (0-5)	MS	2,4-Dinitrophenol		3.08	0	1	10	110	U F1	UR Flag
SW8270D	2746-01-B92 (0-5)	MSD	2,4-Dinitrophenol		3.07	0	1	10	110	U F1	UR Flag
SW8270D	2746-01-B92 (0-5)	MSD	4,6-Dinitro-2-methylphenol		3.07	0	1	10	110	U F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01-B92 (0-5)	MSD	Benzo[b]fluoranthene	0.0092	1.53	125	1	54	122	F1	J Flag
SW8270D	2746-01-B92 (0-5)	MSD	Benzo[g,h,i]perylene		1.53	44	1	52	125	F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MSD	1,2,4-Trichlorobenzene		1.49	116	1	49	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	1,2-Dichlorobenzene		1.49	117	1	48	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	1,3-Dichlorobenzene		1.49	114	1	44	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	1,4-Dichlorobenzene		1.49	116	1	45	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	2,4-Dichlorophenol		1.49	124	1	53	113	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	2,4-Dimethylphenol		1.49	118	1	49	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	2,4-Dinitrophenol		2.9	0	1	10	110	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MSD	2,4-Dinitrophenol		2.97	0	1	10	110	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MSD	2-Chlorophenol		1.49	118	1	47	114	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	2-Methylnaphthalene		1.45	111	1	48	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	2-Methylnaphthalene		1.49	118	1	48	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	2-Methylphenol		1.45	128	1	44	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	2-Methylphenol		1.49	122	1	44	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	4,6-Dinitro-2-methylphenol		2.9	0	1	10	110	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MSD	4,6-Dinitro-2-methylphenol		2.97	0	1	10	110	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MS	4-Bromophenyl phenyl ether		1.45	116	1	55	113	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	4-Bromophenyl phenyl ether		1.49	120	1	55	113	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	4-Chloro-3-methylphenol		1.45	112	1	52	111	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	4-Chloro-3-methylphenol		1.49	125	1	52	111	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	Benzo[b]fluoranthene	0.2	1.45	132	1	54	122	F1	J Flag
SW8270D	2746-02-B02 (0-7)	MSD	Benzo[b]fluoranthene	0.2	1.49	143	1	54	122	F1	J Flag
SW8270D	2746-02-B02 (0-7)	MS	Benzo[k]fluoranthene	0.058	1.45	138	1	44	137	F1	J Flag
SW8270D	2746-02-B02 (0-7)	MSD	Benzo[k]fluoranthene	0.058	1.49	139	1	44	137	F1	J Flag
SW8270D	2746-02-B02 (0-7)	MS	Bis(2-chloroethoxy)methane		1.45	117	1	42	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Bis(2-chloroethoxy)methane		1.49	126	1	42	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	Bis(2-chloroethyl)ether		1.45	135	1	32	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Bis(2-chloroethyl)ether		1.49	129	1	32	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	Bis(2-ethylhexyl) phthalate		1.45	183	1	47	133	E F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Bis(2-ethylhexyl) phthalate		1.49	196	1	47	133	E F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	Butyl benzyl phthalate		1.45	185	1	49	121	E F1	None - Nondetect

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-02-B02 (0-7)	MSD	Butyl benzyl phthalate		1.49	195	1	49	121	E F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Hexachlorobenzene		1.49	118	1	54	114	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	Hexachlorobutadiene		1.45	115	1	47	114	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Hexachlorobutadiene		1.49	125	1	47	114	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	Hexachlorocyclopentadiene		1.45	0	1	10	110	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MSD	Hexachlorocyclopentadiene		1.49	0	1	10	110	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MS	Isophorone		1.45	112	1	35	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Isophorone		1.49	123	1	35	110	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Naphthalene	0.011	1.49	114	1	48	110	F1	J Flag
SW8270D	2746-02-B02 (0-7)	MSD	Nitrobenzene		1.49	115	1	35	113	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MS	N-Nitrosodiphenylamine		1.45	123	1	52	111	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	N-Nitrosodiphenylamine		1.49	126	1	52	111	F1	None - Nondetect
SW8270D	2746-02-B02 (0-7)	MSD	Pentachlorophenol		2.97	0	1	10	124	U F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MS	Phenol		1.45	128	1	41	110	F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MSD	Phenol		1.49	137	1	41	110	F1	UJ Flag
SW8270D	2746-02-B02 (0-7)	MS	Pyrene	0.24	1.45	163	1	46	114	E F1	J Flag
SW8270D	2746-02-B02 (0-7)	MSD	Pyrene	0.24	1.49	182	1	46	114	E F1	J Flag
SW6020A	2746-01-G03	MS	Arsenic	0.0073	0.1	134	1	75	125	F1	J Flag
SW6020A	2746-01-G03	MS	Calcium	460	10	-194	5	75	125	4	None- Diluted Out
SW6020A	2746-01-G03	MSD	Calcium	460	10	-290	5	75	125	4	None- Diluted Out
SW6020A	2746-01-G03	MS	Iron	18	1	-55	1	75	125	4	None - 4X
SW6020A	2746-01-G03	MSD	Iron	18	1	-64	1	75	125	4	None - 4X
SW6020A	2746-01-G03	MS	Magnesium	190	10	-86	1	75	125	4	None - 4X
SW6020A	2746-01-G03	MSD	Magnesium	190	10	-97	1	75	125	4	None - 4X
SW6020A	2746-01-G03	MS	Manganese	1.7	0.5	65	1	75	125	F1	None
SW6020A	2746-01-G03	MSD	Manganese	1.7	0.5	61	1	75	125	F1	None
SW6020A	2746-01-G03	MS	Selenium	0.0014	0.1	132	1	75	125	F1	None
SW6020A	2746-01-G03	MS	Sodium	900	10	-532	5	75	125	4 ^	None- Diluted Out
SW6020A	2746-01-G03	MSD	Sodium	900	10	-691	5	75	125	4 ^	None- Diluted Out
SW6010B_TCLP	2746-01A-B05 (0-8)	MS	Manganese	2.2	0.5	228	1	50	150	4	None - 4X
SW6010B_TCLP	2746-01-B58 (0-8)	MS	Iron	0.66	1	49	1	50	150	F1	J Flag
SW6010B_TCLP	2746-01-B73 (0-8)	MS	Manganese	7.2	0.5	225	1	50	150	4	None - 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B_TCLP	2746-61-B01 (0-5)	MS	Boron	0.082	1	163	1	50	150	F1	None - Nondetect
SW6010B	2746-01A-B05 (0-8)	MS	Antimony		30	16	1	75	125	F1	UJ Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Antimony		24.7	14	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Arsenic	6.7	4.94	64	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MS	Barium	68	120	74	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Barium	68	98.7	66	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MS	Calcium	43000	600	1982	10	75	125	4 ^	None- Diluted Out
SW6010B	2746-01A-B05 (0-8)	MSD	Calcium	43000	494	2355	10	75	125	4 ^	None- Diluted Out
SW6010B	2746-01A-B05 (0-8)	MS	Copper	26	15	60	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Copper	26	12.3	72	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MS	Iron	18000	60	-547	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MSD	Iron	18000	49.4	-1968	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MS	Lead	15	6	311	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Lead	15	4.94	186	1	75	125	F1 F2	J Flag
SW6010B	2746-01A-B05 (0-8)	MS	Magnesium	20000	600	655	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MSD	Magnesium	20000	494	847	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MS	Manganese	300	30	314	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MSD	Manganese	300	24.7	207	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MS	Potassium	2900	600	437	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MSD	Potassium	2900	494	420	1	75	125	4	None - 4X
SW6010B	2746-01A-B05 (0-8)	MS	Selenium	0.32	6	69	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Selenium	0.32	4.94	72	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MS	Sodium	860	600	139	1	75	125	F1	J Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Sodium	860	494	127	1	75	125	F1	J Flag
SW6010B	2746-01-B37 (0-8)	MS	Antimony		29.6	21	1	75	125	F1	UJ Flag
SW6010B	2746-01-B37 (0-8)	MSD	Antimony		29.1	20	1	75	125	F1	UJ Flag
SW6010B	2746-01-B37 (0-8)	MSD	Arsenic	6.6	5.82	145	1	75	125	F1	J Flag
SW6010B	2746-01-B37 (0-8)	MS	Calcium	49000	593	688	10	75	125	4	None- Diluted Out
SW6010B	2746-01-B37 (0-8)	MSD	Calcium	49000	582	-1378	10	75	125	4 F2	None- Diluted Out
SW6010B	2746-01-B37 (0-8)	MS	Copper	29	14.8	71	1	75	125	F1	J Flag
SW6010B	2746-01-B37 (0-8)	MSD	Copper	29	14.5	132	1	75	125	F1	J Flag
SW6010B	2746-01-B37 (0-8)	MS	Iron	18000	59.3	2792	1	75	125	4	None - 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	2746-01-B37 (0-8)	MSD	Iron	18000	58.2	4614	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MS	Lead	57	5.93	-236	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MSD	Lead	57	5.82	612	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B37 (0-8)	MSD	Magnesium	21000	582	-433	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MS	Manganese	270	29.6	41	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MSD	Manganese	270	29.1	33	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MS	Potassium	2800	593	302	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MSD	Potassium	2800	582	205	1	75	125	4	None - 4X
SW6010B	2746-01-B37 (0-8)	MSD	Zinc	67	29.1	923	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B54 (14-20)	MS	Antimony		30.2	13	1	75	125	F1	UJ Flag
SW6010B	2746-01-B54 (14-20)	MSD	Antimony		28.1	14	1	75	125	F1	UJ Flag
SW6010B	2746-01-B54 (14-20)	MSD	Boron	13	56.2	72	1	75	125	F1	J Flag
SW6010B	2746-01-B54 (14-20)	MS	Calcium	65000	603	-22	10	75	125	4	None- Diluted Out
SW6010B	2746-01-B54 (14-20)	MSD	Calcium	65000	562	-236	10	75	125	4	None- Diluted Out
SW6010B	2746-01-B54 (14-20)	MS	Iron	19000	60.3	3358	1	75	125	4	None - 4X
SW6010B	2746-01-B54 (14-20)	MSD	Iron	19000	56.2	2135	1	75	125	4	None - 4X
SW6010B	2746-01-B54 (14-20)	MS	Magnesium	27000	603	211	1	75	125	4	None - 4X
SW6010B	2746-01-B54 (14-20)	MS	Potassium	2900	603	385	1	75	125	4	None - 4X
SW6010B	2746-01-B54 (14-20)	MSD	Potassium	2900	562	297	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MS	Antimony		27.9	19	1	75	125	F1	UJ Flag
SW6010B	2746-01-B75 (0-8)	MSD	Antimony		28.1	20	1	75	125	F1	UJ Flag
SW6010B	2746-01-B75 (0-8)	MS	Arsenic	6.9	5.58	64	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MS	Boron	8.4	55.8	68	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Boron	8.4	56.2	65	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MS	Calcium	32000	558	-619	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MSD	Calcium	32000	562	-1553	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B75 (0-8)	MSD	Cobalt	14	28.1	132	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B75 (0-8)	MS	Iron	18000	55.8	-130	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MSD	Iron	18000	56.2	-1883	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MS	Lead	72	5.58	-173	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MSD	Lead	72	5.62	-487	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B75 (0-8)	MS	Magnesium	19000	558	-110	1	75	125	4	None - 4X

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	2746-01-B75 (0-8)	MSD	Magnesium	19000	562	-585	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MS	Manganese	310	27.9	855	1	75	125	4	None - 4X
SW6010B	2746-01-B75 (0-8)	MSD	Manganese	310	28.1	1516	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B75 (0-8)	MS	Potassium	1900	558	152	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MS	Selenium	0.72	5.58	63	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Selenium	0.72	5.62	65	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MS	Sodium	2000	558	7	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Sodium	2000	562	-26	1	75	125	F1	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Zinc	70	28.1	71	1	75	125	F1	J Flag
SW6010B	2746-01-B87 (0-7)	MS	Antimony		22.3	13	1	75	125	F1	UJ Flag
SW6010B	2746-01-B87 (0-7)	MSD	Antimony		24.7	15	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01-B87 (0-7)	MS	Boron	14	44.5	68	1	75	125	F1	J Flag
SW6010B	2746-01-B87 (0-7)	MSD	Boron	14	49.4	74	1	75	125	F1	J Flag
SW6010B	2746-01-B87 (0-7)	MS	Calcium	72000	445	1388	10	75	125	4	None- Diluted Out
SW6010B	2746-01-B87 (0-7)	MSD	Calcium	72000	494	1913	10	75	125	4	None- Diluted Out
SW6010B	2746-01-B87 (0-7)	MS	Iron	19000	44.5	-1053	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MSD	Iron	19000	49.4	751	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MS	Magnesium	27000	445	-372	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MSD	Magnesium	27000	494	183	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MS	Manganese	330	22.3	175	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MSD	Manganese	330	24.7	2	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MS	Potassium	2900	445	257	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MSD	Potassium	2900	494	274	1	75	125	4	None - 4X
SW6010B	2746-01-B87 (0-7)	MS	Selenium		4.45	67	1	75	125	F1	UJ Flag
SW6010B	2746-01-B87 (0-7)	MSD	Selenium		4.94	71	1	75	125	F1	UJ Flag
SW6010B	2746-01-B87 (0-7)	MS	Zinc	51	22.3	144	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01-B05 (0-8)	MS	2,4-Dinitrophenol		3.01	0	1	10	110	U F1	UR Flag
SW8270D	2746-01-B05 (0-8)	MSD	2,4-Dinitrophenol		3.06	0	1	10	110	U F1	UR Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01-B05 (0-8)	MS	4,6-Dinitro-2-methylphenol		3.01	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B05 (0-8)	MSD	4,6-Dinitro-2-methylphenol		3.06	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B05 (0-8)	MS	Benzo[g,h,i]perylene		1.51	41	1	52	125	F1	UJ Flag
SW8270D	2746-01-B05 (0-8)	MSD	Benzo[g,h,i]perylene		1.53	47	1	52	125	F1	UJ Flag
SW8270D	2746-01-B05 (0-8)	MS	Hexachlorocyclopentadiene		1.51	0	1	10	110	U F1	UR Flag
SW8270D	2746-01-B05 (0-8)	MSD	Hexachlorocyclopentadiene		1.53	0	1	10	110	U F1	UR Flag
SW8270D	2746-01-B05 (0-8)	MS	Indeno[1,2,3-cd]pyrene		1.51	47	1	49	132	F1	UJ Flag
SW8270D	2746-01-B05 (0-8)	MSD	Pyrene	0.011	1.53	124	1	46	114	F1	J Flag
SW8270D	2746-01-B18 (0-8)	MS	2,4-Dinitrophenol		3.12	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MSD	2,4-Dinitrophenol		2.97	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MS	4,6-Dinitro-2-methylphenol		3.12	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MS	Benzo[g,h,i]perylene	0.043	1.56	47	1	52	125	F1	J Flag
SW8270D	2746-01-B18 (0-8)	MSD	Benzo[g,h,i]perylene	0.043	1.49	40	1	52	125	F1	J Flag
SW8270D	2746-01-B18 (0-8)	MS	Bis(2-ethylhexyl) phthalate		1.56	143	1	47	133	F1	None
SW8270D	2746-01-B18 (0-8)	MS	Butyl benzyl phthalate		1.56	145	1	49	121	F1	None
SW8270D	2746-01-B18 (0-8)	MSD	Butyl benzyl phthalate		1.49	122	1	49	121	F1	None
SW8270D	2746-01-B18 (0-8)	MS	Hexachlorocyclopentadiene		1.56	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MSD	Hexachlorocyclopentadiene		1.49	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MS	Hexachloroethane		1.56	41	1	44	110	F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MSD	Hexachloroethane		1.49	34	1	44	110	F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MSD	Indeno[1,2,3-cd]pyrene	0.051	1.49	46	1	49	132	F1	J Flag
SW8270D	2746-01-B18 (0-8)	MS	Pentachlorophenol		3.12	0	1	10	124	U F1	UJ Flag
SW8270D	2746-01-B18 (0-8)	MS	Pyrene	0.14	1.56	146	1	46	114	F1	J Flag
SW8270D	2746-01-B18 (0-8)	MSD	Pyrene	0.14	1.49	119	1	46	114	F1	J Flag
SW8270D	2746-01-B36 (0-8)	MS	2,4-Dinitrophenol		3.09	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B36 (0-8)	MSD	2,4-Dinitrophenol		3.12	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B36 (0-8)	MS	4,6-Dinitro-2-methylphenol		3.09	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B36 (0-8)	MSD	4,6-Dinitro-2-methylphenol		3.12	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B36 (0-8)	MSD	4-Chloroaniline		1.56	121	1	16	118	F1	None
SW8270D	2746-01-B36 (0-8)	MS	Benzo[b]fluoranthene		1.54	130	1	54	122	F1	None
SW8270D	2746-01-B36 (0-8)	MSD	Benzo[b]fluoranthene		1.56	138	1	54	122	F1	None
SW8270D	2746-01-B36 (0-8)	MS	Benzo[k]fluoranthene		1.54	141	1	44	137	F1	None

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01-B36 (0-8)	MSD	Bis(2-chloroethyl)ether		1.56	115	1	32	110	F1	None
SW8270D	2746-01-B36 (0-8)	MS	Bis(2-ethylhexyl) phthalate		1.54	161	1	47	133	F1	None
SW8270D	2746-01-B36 (0-8)	MSD	Bis(2-ethylhexyl) phthalate		1.56	163	1	47	133	F1	None
SW8270D	2746-01-B36 (0-8)	MS	Butyl benzyl phthalate		1.54	168	1	49	121	F1	None
SW8270D	2746-01-B36 (0-8)	MSD	Butyl benzyl phthalate		1.56	170	1	49	121	F1	None
SW8270D	2746-01-B36 (0-8)	MS	Hexachlorocyclopentadiene		1.54	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B36 (0-8)	MSD	Hexachlorocyclopentadiene		1.56	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B36 (0-8)	MS	Phenol		1.54	113	1	41	110	F1	ND
SW8270D	2746-01-B36 (0-8)	MS	Pyrene	0.011	1.54	163	1	46	114	F1	J Flag
SW8270D	2746-01-B36 (0-8)	MSD	Pyrene	0.011	1.56	162	1	46	114	F1	J Flag
SW8270D	2746-01-B98 (0-8)	MS	2,4-Dinitrophenol		3.08	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MSD	2,4-Dinitrophenol		3.13	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MS	4,6-Dinitro-2-methylphenol		3.08	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MSD	4,6-Dinitro-2-methylphenol		3.13	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MS	4-Bromophenyl phenyl ether		1.54	129	1	55	113	F1	None
SW8270D	2746-01-B98 (0-8)	MSD	4-Bromophenyl phenyl ether		1.57	132	1	55	113	F1	None
SW8270D	2746-01-B98 (0-8)	MS	Bis(2-ethylhexyl) phthalate		1.54	164	1	47	133	F1	None
SW8270D	2746-01-B98 (0-8)	MSD	Bis(2-ethylhexyl) phthalate		1.57	167	1	47	133	F1	None
SW8270D	2746-01-B98 (0-8)	MS	Butyl benzyl phthalate		1.54	175	1	49	121	F1	None
SW8270D	2746-01-B98 (0-8)	MSD	Butyl benzyl phthalate		1.57	186	1	49	121	E F1	None
SW8270D	2746-01-B98 (0-8)	MS	Di-n-octyl phthalate		1.54	33	1	46	138	F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MSD	Di-n-octyl phthalate		1.57	33	1	46	138	F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MS	Hexachlorocyclopentadiene		1.54	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MSD	Hexachlorocyclopentadiene		1.57	0	1	10	110	U F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MS	Hexachloroethane		1.54	29	1	44	110	F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MSD	Hexachloroethane		1.57	25	1	44	110	F1	UJ Flag
SW8270D	2746-01-B98 (0-8)	MS	N-Nitrosodiphenylamine		1.54	147	1	52	111	F1	None
SW8270D	2746-01-B98 (0-8)	MSD	N-Nitrosodiphenylamine		1.57	152	1	52	111	F1	None
SW8270D	2746-01-B98 (0-8)	MS	Pyrene	0.16	1.54	166	1	46	114	E F1	J Flag
SW8270D	2746-01-B98 (0-8)	MSD	Pyrene	0.16	1.57	177	1	46	114	E F1	J Flag
SW8270D	2746-01B-B02 (0-3)	MSD	2,4-Dinitrotoluene		1.39	51	5	53	122	J F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	2-Nitrophenol		1.43	39	5	48	113	J F1	None- Diluted Out

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW8270D	2746-01B-B02 (0-3)	MSD	2-Nitrophenol		1.39	35	5	48	113	J F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	4,6-Dinitro-2-methylphenol		2.85	0	5	10	110	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	4,6-Dinitro-2-methylphenol		2.79	0	5	10	110	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	4-Bromophenyl phenyl ether		1.43	133	5	55	113	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	4-Bromophenyl phenyl ether		1.39	131	5	55	113	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	4-Chloroaniline		1.43	0	5	16	118	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	4-Chloroaniline		1.39	0	5	16	118	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	4-Nitroaniline		1.39	0	5	28	157	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	4-Nitrophenol		2.85	0	5	10	157	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	4-Nitrophenol		2.79	0	5	10	157	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Bis(2-ethylhexyl) phthalate		1.43	183	5	47	133	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	Bis(2-ethylhexyl) phthalate		1.39	173	5	47	133	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Butyl benzyl phthalate		1.43	187	5	49	121	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	Butyl benzyl phthalate		1.39	181	5	49	121	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Di-n-octyl phthalate		1.43	34	5	46	138	J F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	Di-n-octyl phthalate		1.39	31	5	46	138	J F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Hexachlorocyclopentadiene		1.43	0	5	10	110	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	Hexachlorocyclopentadiene		1.39	0	5	10	110	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Hexachloroethane		1.43	0	5	44	110	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	Hexachloroethane		1.39	0	5	44	110	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	N-Nitrosodiphenylamine		1.43	160	5	52	111	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	N-Nitrosodiphenylamine		1.39	159	5	52	111	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Pentachlorophenol		2.85	0	5	10	124	U F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MS	Pyrene	1.4	1.43	205	5	46	114	F1	None- Diluted Out
SW8270D	2746-01B-B02 (0-3)	MSD	Pyrene	1.4	1.39	207	5	46	114	F1	None- Diluted Out
SW6010B_TCLP	2746-01A-B01 (0-8)	MS	Boron	1.3	1	-12	1	50	150	J F1	UR Flag
SW6010B_TCLP	2746-01A-B01 (0-8)	MS	Manganese	2	0.5	184	1	50	150	4	J Flag
SW6010B_TCLP	2746-01-B18 (16-24)	MS	Boron	0.72	1	43	1	50	150	F1	J Flag
SW6010B_TCLP	2746-01B-B03 (7-14)	MS	Manganese	2	0.5	160	1	50	150	4	J Flag
SW6010B_SPLP	2746-01-B98 (0-8)	MS	Boron		1	6	1	50	150	J F1	UJ Flag
SW6010B_SPLP	2746-01-B98 (0-8)	MS	Manganese		0.5	159	1	50	150	F1	J Flag
SW6010B	2746-01-B13 (0-8)	MS	Antimony		27.6	26	1	75	125	F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	2746-01-B13 (0-8)	MSD	Antimony		26.2	23	1	75	125	F1	UJ Flag
SW6010B	2746-01-B13 (0-8)	MS	Boron	5.6	55.2	71	1	75	125	F1	J Flag
SW6010B	2746-01-B13 (0-8)	MSD	Boron	5.6	52.5	69	1	75	125	F1	J Flag
SW6010B	2746-01-B13 (0-8)	MS	Calcium	50000	552	-184	10	75	125	4	None - Diluted Out
SW6010B	2746-01-B13 (0-8)	MSD	Calcium	50000	525	320	10	75	125	4	None - Diluted Out
SW6010B	2746-01-B13 (0-8)	MS	Iron	11000	55.2	753	1	75	125	4	None - 4X
SW6010B	2746-01-B13 (0-8)	MSD	Iron	11000	52.5	4846	1	75	125	4	None - 4X
SW6010B	2746-01-B13 (0-8)	MS	Lead	27	5.52	-90	1	75	125	4	None - 4X
SW6010B	2746-01-B13 (0-8)	MSD	Lead	27	5.25	9	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B13 (0-8)	MS	Magnesium	25000	552	-745	1	75	125	4	None - 4X
SW6010B	2746-01-B13 (0-8)	MSD	Magnesium	25000	525	-581	1	75	125	4	None - 4X
SW6010B	2746-01-B13 (0-8)	MS	Manganese	230	27.6	43	1	75	125	4	None - 4X
SW6010B	2746-01-B13 (0-8)	MSD	Manganese	230	26.2	469	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B13 (0-8)	MS	Potassium	970	552	177	1	75	125	F1	J Flag
SW6010B	2746-01-B13 (0-8)	MSD	Potassium	970	525	181	1	75	125	F1	J Flag
SW6010B	2746-01-B18 (0-8)	MS	Antimony		28.8	32	1	75	125	F1	UJ Flag
SW6010B	2746-01-B18 (0-8)	MSD	Antimony		26.3	24	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01-B18 (0-8)	MS	Arsenic	4.3	5.77	50	1	75	125	F1	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Boron	4.3	52.5	68	1	75	125	F1	J Flag
SW6010B	2746-01-B18 (0-8)	MS	Calcium	45000	577	-2058	10	75	125	4	None - Diluted Out
SW6010B	2746-01-B18 (0-8)	MSD	Calcium	45000	525	-1840	10	75	125	4	None - Diluted Out
SW6010B	2746-01-B18 (0-8)	MS	Copper	15	14.4	55	1	75	125	F1	J Flag
SW6010B	2746-01-B18 (0-8)	MS	Iron	11000	57.7	-6162	1	75	125	4	None - 4X
SW6010B	2746-01-B18 (0-8)	MSD	Iron	11000	52.5	-1175	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B18 (0-8)	MS	Lead	15	5.77	44	1	75	125	F1	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Lead	15	5.25	183	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B18 (0-8)	MS	Magnesium	22000	577	-563	1	75	125	4	None - 4X
SW6010B	2746-01-B18 (0-8)	MSD	Magnesium	22000	525	-644	1	75	125	4	None - 4X
SW6010B	2746-01-B18 (0-8)	MS	Manganese	240	28.8	-18	1	75	125	4	None - 4X
SW6010B	2746-01-B18 (0-8)	MSD	Manganese	240	26.3	48	1	75	125	4	None - 4X
SW6010B	2746-01-B18 (0-8)	MS	Potassium	850	577	185	1	75	125	F1	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Potassium	850	525	181	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	2746-01-B18 (0-8)	MSD	Selenium	0.42	5.25	67	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B25 (7-14)	MS	Antimony		29.8	20	1	75	125	F1	UJ Flag
SW6010B	2746-01-B25 (7-14)	MSD	Antimony		28.4	16	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01-B25 (7-14)	MS	Barium	42	119	70	1	75	125	F1	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Boron	12	56.7	73	1	75	125	F1	J Flag
SW6010B	2746-01-B25 (7-14)	MS	Calcium	79000	595	3459	10	75	125	4	None - Diluted Out
SW6010B	2746-01-B25 (7-14)	MSD	Calcium	79000	567	-1565	10	75	125	4 F2	None - Diluted Out
SW6010B	2746-01-B25 (7-14)	MS	Chromium	16	11.9	47	1	75	125	F1	J Flag
SW6010B	2746-01-B25 (7-14)	MS	Iron	16000	59.5	-4968	1	75	125	4	None - 4X
SW6010B	2746-01-B25 (7-14)	MSD	Iron	16000	56.7	1025	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B25 (7-14)	MS	Magnesium	31000	595	2360	1	75	125	4	None - 4X
SW6010B	2746-01-B25 (7-14)	MSD	Magnesium	31000	567	-235	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B25 (7-14)	MS	Manganese	390	29.8	491	1	75	125	4	None - 4X
SW6010B	2746-01-B25 (7-14)	MSD	Manganese	390	28.4	-15	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B25 (7-14)	MS	Nickel	28	29.8	70	1	75	125	F1	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Potassium	2400	567	277	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B25 (7-14)	MSD	Selenium		5.67	70	1	75	125	F1	UJ Flag
SW6010B	2746-01-B25 (7-14)	MS	Zinc	47	29.8	65	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MS	Antimony		28.5	17	1	75	125	F1	UJ Flag
SW6010B	2746-01-B36 (0-8)	MSD	Antimony		23	14	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01-B36 (0-8)	MSD	Arsenic	5.2	4.6	162	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Beryllium	0.74	2.3	73	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B36 (0-8)	MS	Boron	14	57	58	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Boron	14	46	37	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Cadmium		2.3	74	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01-B36 (0-8)	MS	Calcium	58000	570	-8169	10	75	125	4	None - Diluted Out
SW6010B	2746-01-B36 (0-8)	MSD	Calcium	58000	460	-11690	10	75	125	4 F2	None - Diluted Out
SW6010B	2746-01-B36 (0-8)	MSD	Cobalt	9.6	23	178	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B36 (0-8)	MS	Copper	24	14.3	25	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MS	Iron	19000	57	10443	1	75	125	4	None - 4X
SW6010B	2746-01-B36 (0-8)	MSD	Iron	19000	46	12076	1	75	125	4	None - 4X
SW6010B	2746-01-B36 (0-8)	MSD	Lead	14	4.6	235	1	75	125	F1 F2	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	2746-01-B36 (0-8)	MS	Magnesium	25000	570	-2567	1	75	125	4	None - 4X
SW6010B	2746-01-B36 (0-8)	MSD	Magnesium	25000	460	-3966	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B36 (0-8)	MS	Manganese	300	28.5	-209	1	75	125	4	None - 4X
SW6010B	2746-01-B36 (0-8)	MSD	Manganese	300	23	3780	1	75	125	E 4 F2	None - 4X
SW6010B	2746-01-B36 (0-8)	MSD	Nickel	33	23	242	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Potassium	2900	460	-11	1	75	125	4 F2	None - 4X
SW6010B	2746-01-B36 (0-8)	MS	Selenium	0.57	5.7	62	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Selenium	0.57	4.6	57	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Silver		2.3	69	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01-B36 (0-8)	MS	Sodium	410	570	58	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Sodium	410	460	48	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Vanadium	23	23	73	1	75	125	F1 F2	J Flag
SW6010B	2746-01-B36 (0-8)	MS	Zinc	56	28.5	171	1	75	125	F1	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Zinc	56	23	171	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MS	Antimony	0.19	24.1	38	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MSD	Antimony	0.19	23.8	41	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MS	Calcium	170000	482	-5549	10	75	125	4	None - Diluted Out
SW6010B	2746-01B-B02 (0-3)	MSD	Calcium	170000	476	-4374	10	75	125	4	None - Diluted Out
SW6010B	2746-01B-B02 (0-3)	MS	Iron	3600	48.2	5475	1	75	125	4	None - 4X
SW6010B	2746-01B-B02 (0-3)	MSD	Iron	3600	47.6	3266	1	75	125	4	None - 4X
SW6010B	2746-01B-B02 (0-3)	MS	Lead	3.9	4.82	167	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MSD	Lead	3.9	4.76	142	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MS	Magnesium	99000	482	-5139	10	75	125	4	None - Diluted Out
SW6010B	2746-01B-B02 (0-3)	MSD	Magnesium	99000	476	-3924	10	75	125	4	None - Diluted Out
SW6010B	2746-01B-B02 (0-3)	MS	Manganese	160	24.1	504	1	75	125	4	None - 4X
SW6010B	2746-01B-B02 (0-3)	MSD	Manganese	160	23.8	550	1	75	125	4	None - 4X
SW6010B	2746-01B-B02 (0-3)	MS	Potassium	520	482	235	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MSD	Potassium	520	476	189	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MS	Sodium	580	482	164	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MSD	Sodium	580	476	148	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MS	Zinc	15	24.1	153	1	75	125	F1	J Flag
SW6010B	2746-01B-B02 (0-3)	MSD	Zinc	15	23.8	130	1	75	125	F1	J Flag

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil Fac	Low Limit	High Limit	Qualifier	Sample Qual.
SW6010B	2746-01B-B03 (0-7)	MS	Antimony		22.8	16	1	75	125	F1	UJ Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Antimony		27.5	18	1	75	125	F1 F2	UJ Flag
SW6010B	2746-01B-B03 (0-7)	MS	Arsenic	7.1	4.56	55	1	75	125	F1	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Arsenic	7.1	5.51	59	1	75	125	F1	J Flag
SW6010B	2746-01B-B03 (0-7)	MS	Calcium	60000	456	4162	10	75	125	4	None - Diluted Out
SW6010B	2746-01B-B03 (0-7)	MSD	Calcium	60000	551	435	10	75	125	4 F2	None - Diluted Out
SW6010B	2746-01B-B03 (0-7)	MS	Chromium	15	9.12	73	1	75	125	F1	J Flag
SW6010B	2746-01B-B03 (0-7)	MS	Copper	24	11.4	68	1	75	125	F1	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Copper	24	13.8	183	1	75	125	F1 F2	J Flag
SW6010B	2746-01B-B03 (0-7)	MS	Iron	17000	45.6	-2921	1	75	125	4	None - 4X
SW6010B	2746-01B-B03 (0-7)	MSD	Iron	17000	55.1	1610	1	75	125	4	None - 4X
SW6010B	2746-01B-B03 (0-7)	MS	Lead	17	4.56	-33	1	75	125	F1	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Lead	17	5.51	17	1	75	125	F1	J Flag
SW6010B	2746-01B-B03 (0-7)	MS	Magnesium	25000	456	1884	1	75	125	4	None - 4X
SW6010B	2746-01B-B03 (0-7)	MSD	Magnesium	25000	551	519	1	75	125	4	None - 4X
SW6010B	2746-01B-B03 (0-7)	MS	Manganese	360	22.8	1133	1	75	125	4	None - 4X
SW6010B	2746-01B-B03 (0-7)	MS	Potassium	2200	456	260	1	75	125	4	None - 4X
SW6010B	2746-01B-B03 (0-7)	MSD	Potassium	2200	551	353	1	75	125	4	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Selenium		5.51	66	1	75	125	F1	UJ Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	2746-01A-B05 (0-8)	MSD	Antimony	33	20	None - < 5X PQL
SW6010B	2746-01-B87 (0-7)	MSD	Antimony	25	20	None - < 5X PQL
SW6010B	2746-01-B75 (0-8)	MSD	Arsenic	23	20	J Flag
SW6010B	2746-01A-B05 (0-8)	DUP	Barium	33	20	J Flag
SW6010B	2746-01A-B05 (0-8)	DUP	Boron	25	20	None - < 5X PQL
SW6010B	2746-01A-B05 (0-8)	MSD	Boron	22	20	None - < 5X PQL
SW6010B	2746-01-B75 (0-8)	DUP	Boron	51	20	None - < 5X PQL
SW6010B	2746-01A-B05 (0-8)	MSD	Cadmium	22	20	None - < 5X PQL
SW6010B	2746-01-B37 (0-8)	DUP	Cadmium	29	20	None - < 5X PQL
SW6010B	2746-01-B54 (14-20)	DUP	Cadmium	27	20	None - < 5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	2746-01-B75 (0-8)	DUP	Cadmium	41	20	None - < 5X PQL
SW6010B	2746-01A-B05 (0-8)	DUP	Calcium	32	20	Diluted Out
SW6010B	2746-01-B37 (0-8)	MSD	Calcium	26	20	Diluted Out
SW6010B	2746-01-B75 (0-8)	DUP	Calcium	87	20	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Calcium	21	20	J Flag
SW6010B	2746-01-B37 (0-8)	DUP	Cobalt	24	20	J Flag
SW6010B	2746-01-B75 (0-8)	DUP	Cobalt	27	20	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Cobalt	25	20	J Flag
SW6010B	2746-01-B37 (0-8)	DUP	Copper	33	20	J Flag
SW6010B	2746-01A-B05 (0-8)	DUP	Lead	54	20	J Flag
SW6010B	2746-01A-B05 (0-8)	MSD	Lead	33	20	J Flag
SW6010B	2746-01-B37 (0-8)	MSD	Lead	73	20	J Flag
SW6010B	2746-01-B37 (0-8)	DUP	Lead	53	20	J Flag
SW6010B	2746-01-B75 (0-8)	DUP	Lead	53	20	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Lead	33	20	J Flag
SW6010B	2746-01-B75 (0-8)	DUP	Magnesium	80	20	J Flag
SW6010B	2746-01-B75 (0-8)	MSD	Manganese	29	20	J Flag
SW6010B	2746-01-B75 (0-8)	DUP	Potassium	37	20	J Flag
SW6010B	2746-01A-B05 (0-8)	DUP	Selenium	60	20	None - < 5X PQL
SW6010B	2746-01-B75 (0-8)	DUP	Sodium	48	20	J Flag
SW6010B	2746-01-B37 (0-8)	MSD	Zinc	112	20	J Flag
SW6010B	2746-01-B87 (0-7)	DUP	Zinc	40	20	J Flag
SW6020A	2746-01-G03	DUP	Cadmium	27	20	None - < 5X PQL
SW6020A	2746-01-G03	DUP	Copper	48	20	J Flag
SW7471B	2746-01-B53 (0-7)	DUP	Mercury	55	20	None - < 5X PQL
SW7471B	2746-02-B02 (0-7)	DUP	Mercury	37	20	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	1,2,4-Trichlorobenzene	128	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	1,2-Dichlorobenzene	145	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	1,3-Dichlorobenzene	127	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	1,4-Dichlorobenzene	153	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2,2'-oxybis[1-chloropropane]	145	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2,4,5-Trichlorophenol	36	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2,4,6-Trichlorophenol	104	30	None - < 5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8270D	2746-01-B53 (0-7)	MSD	2,4-Dichlorophenol	107	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2,4-Dimethylphenol	126	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2-Chloronaphthalene	60	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2-Chlorophenol	151	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2-Methylnaphthalene	142	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2-Methylphenol	148	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2-Nitroaniline	35	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	2-Nitrophenol	147	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	3 & 4 Methylphenol	134	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	3,3'-Dichlorobenzidine	35	30	None - < 5X PQL
SW8270D	2746-01-B87 (0-7)	MSD	3,3'-Dichlorobenzidine	64	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	4-Bromophenyl phenyl ether	39	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	4-Chloro-3-methylphenol	124	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	4-Chloroaniline	110	30	None - < 5X PQL
SW8270D	2746-01-B92 (0-5)	MSD	4-Chloroaniline	31	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Acenaphthene	42	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Acenaphthylene	51	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Benzo[a]anthracene	42	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Benzo[a]pyrene	40	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Benzo[b]fluoranthene	43	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Benzo[g,h,i]perylene	39	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Benzo[k]fluoranthene	38	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Bis(2-chloroethoxy)methane	145	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Bis(2-chloroethyl)ether	162	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Bis(2-ethylhexyl) phthalate	42	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Butyl benzyl phthalate	44	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Chrysene	41	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Dibenz(a,h)anthracene	39	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Dibenzofuran	41	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Dimethyl phthalate	48	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Hexachlorobenzene	39	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Hexachlorobutadiene	125	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Hexachloroethane	155	30	None - < 5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8270D	2746-01-B53 (0-7)	MSD	Indeno[1,2,3-cd]pyrene	62	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Isophorone	108	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Naphthalene	135	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Nitrobenzene	152	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	N-Nitrosodi-n-propylamine	137	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	N-Nitrosodiphenylamine	58	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Phenanthrene	32	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Phenol	124	30	None - < 5X PQL
SW8270D	2746-01-B53 (0-7)	MSD	Pyrene	44	30	None - < 5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	2746-01-B18 (0-8)	MSD	Antimony	39	20	None - < 5X PQL
SW6010B	2746-01-B25 (7-14)	MSD	Antimony	30	20	None - < 5X PQL
SW6010B	2746-01-B36 (0-8)	MSD	Antimony	41	20	None - < 5X PQL
SW6010B	2746-01B-B03 (0-7)	MSD	Antimony	27	20	None - < 5X PQL
SW6010B	2746-01-B18 (0-8)	DUP	Arsenic	23	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Arsenic	25	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Arsenic	78	20	J Flag
SW6010B	2746-01-B13 (0-8)	DUP	Barium	31	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Barium	36	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Barium	69	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Barium	73	20	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Barium	21	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Beryllium	31	20	None - < 5X PQL
SW6010B	2746-01-B36 (0-8)	MSD	Beryllium	25	20	None - < 5X PQL
SW6010B	2746-01B-B02 (0-3)	DUP	Beryllium	59	20	None - < 5X PQL
SW6010B	2746-01B-B03 (0-7)	MSD	Beryllium	22	20	None - < 5X PQL
SW6010B	2746-01-B13 (0-8)	DUP	Boron	26	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Boron	21	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Boron	42	20	J Flag
SW6010B	2746-01-B13 (0-8)	DUP	Cadmium	41	20	None - < 5X PQL
SW6010B	2746-01-B36 (0-8)	MSD	Cadmium	23	20	None - < 5X PQL
SW6010B	2746-01B-B02 (0-3)	DUP	Cadmium	80	20	None - < 5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	2746-01-B25 (7-14)	MSD	Calcium	35	20	Diluted Out
SW6010B	2746-01-B25 (7-14)	DUP	Calcium	24	20	Diluted Out
SW6010B	2746-01-B36 (0-8)	DUP	Calcium	38	20	Diluted Out
SW6010B	2746-01-B36 (0-8)	MSD	Calcium	90	20	Diluted Out
SW6010B	2746-01B-B03 (0-7)	MSD	Calcium	24	20	Diluted Out
SW6010B	2746-01-B25 (7-14)	DUP	Chromium	29	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Chromium	25	20	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Chromium	23	20	J Flag
SW6010B	2746-01-B18 (0-8)	DUP	Cobalt	23	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Cobalt	21	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Cobalt	30	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Cobalt	103	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Cobalt	57	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Copper	29	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Copper	44	20	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Copper	43	20	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Iron	32	20	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Iron	23	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Iron	32	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Iron	34	20	J Flag
SW6010B	2746-01-B13 (0-8)	MSD	Lead	22	20	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Lead	34	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Lead	26	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Lead	71	20	J Flag
SW6010B	2746-01B-B03 (0-7)	DUP	Lead	25	20	J Flag
SW6010B	2746-01-B13 (0-8)	DUP	Magnesium	24	20	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Magnesium	41	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Magnesium	36	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Magnesium	33	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Magnesium	44	20	J Flag
SW6010B	2746-01-B13 (0-8)	MSD	Manganese	37	20	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Manganese	33	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Manganese	30	20	J Flag

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW6010B	2746-01-B36 (0-8)	DUP	Manganese	59	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Manganese	132	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Manganese	37	20	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Manganese	44	20	J Flag
SW6010B	2746-01-B25 (7-14)	DUP	Nickel	26	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Nickel	33	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Nickel	41	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Nickel	47	20	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Potassium	24	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Potassium	23	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Potassium	38	20	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Selenium	22	20	J Flag
SW6010B	2746-01-B36 (0-8)	DUP	Selenium	25	20	J Flag
SW6010B	2746-01-B36 (0-8)	MSD	Selenium	25	20	J Flag
SW6010B	2746-01-B18 (0-8)	MSD	Silver	22	20	None - < 5X PQL
SW6010B	2746-01-B36 (0-8)	MSD	Silver	29	20	None - < 5X PQL
SW6010B	2746-01B-B02 (0-3)	DUP	Sodium	49	20	J Flag
SW6010B	2746-01-B25 (7-14)	MSD	Thallium	25	20	None - < 5X PQL
SW6010B	2746-01-B36 (0-8)	MSD	Vanadium	32	20	J Flag
SW6010B	2746-01B-B03 (0-7)	MSD	Vanadium	21	20	J Flag
SW6010B	2746-01B-B02 (0-3)	DUP	Zinc	71	20	J Flag
SW6010B_TCLP	2746-01A-B01 (0-8)	DUP	Zinc	26	20	None - < 5X PQL
SW8270D	2746-01-B18 (0-8)	MSD	2,4-Dimethylphenol	32	30	None - < 5X PQL
SW8270D	2746-01-B36 (0-8)	MSD	3-Nitroaniline	42	30	None - < 5X PQL
SW8270D	2746-01-B05 (0-8)	MSD	Pentachlorophenol	34	30	None - < 5X PQL

Table 5 - List LCS Recoveries outside Control Limits

Method	Sample ID	Analyte	Batch ID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW6010B_TCLP	LCS 500-321610/2-A	Iron	500-321610	303	80	120	6	J Flag
SW6010B_TCLP	LCS 500-321610/2-A	Iron	500-321610	303	80	120	10	None – High & ND
SW8260B	LCS 500-322736/5	Chloroethane	500-322736	144	49	125	18	None – High & ND

Method	Sample ID	Analyte	Batch ID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW8260B	LCS 500-322898/4	Chloroethane	500-322898	130	49	125	20	None – High & ND
SW8260B	LCS 500-321546/27	1,1-Dichloroethene	500-321546	121	67	120	16	None – High & ND
SW8260B	LCS 500-321546/27	Vinyl acetate	500-321546	189	60	150	16	None – High & ND
SW8260B	LCS 500-321853/32	Vinyl acetate	500-321853	160	60	150	12	None – High & ND
SW8260B	LCS 500-323097/4	Vinyl acetate	500-323097	158	30	150	2	None – High & ND
SW8260B	LCSD 500-321546/6	Vinyl acetate	500-321546	177	60	150	16	None – High & ND
SW8260B	LCSD 500-322736/6	Chloroethane	500-322736	128	49	125	18	None – High & ND
SW8260B	LCSD 500-322897/5	Methyl tert-butyl ether	500-322897	121	70	120	1	None – High & ND
SW8260B	LCSD 500-322898/5	Chloroethane	500-322898	134	49	125	20	None – High & ND
SW8260B	LCSD 500-322973/5	Chloroethane	500-322973	134	49	125	1	None – High & ND
SW8260B	LCS 500-322825	trans-1,3-Dichloropropene	500-322825	113	68	121	19	None – High & ND
SW8260B	LCSD 500-322825	trans-1,3-Dichloropropene	500-322825	126	68	121	19	None – High & ND
SW8270D	LCS 500-321513/2-A	2,4-Dinitrophenol	500-321513	7	10	110	16	UR Flag
SW8270D	LCS 500-321625/2-A	4-Chloroaniline	500-321625	120	16	118	19	None – High & ND
SW8270D	LCS 500-322157/2-A	Benzo[g,h,i]perylene	500-322157	46	52	125	1	UJ Flag
SW8270D	LCS 500-322382/2-A	Benzo[g,h,i]perylene	500-322382	36	52	125	1	UJ Flag
SW8270D	LCS 500-322382/2-A	Dibenz(a,h)anthracene	500-322382	46	48	134	1	UJ Flag
SW8270D	LCSD 500-322157/3-A	Benzo[g,h,i]perylene	500-322157	47	52	125	1	UJ Flag
SW8270D	LCSD 500-322157/3-A	Indeno[1,2,3-cd]pyrene	500-322157	53	55	125	1	UJ Flag

Method	Sample ID	Analyte	Batch ID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW8270D	LCS 500-322382/2-A	Benzo[g,h,i]perylene	500-322382	36	52	125	5	J Flag
SW8270D	LCS 500-322382/2-A	Benzo[g,h,i]perylene	500-322382	36	52	125	6	UJ Flag
SW8270D	LCS 500-322382/2-A	Dibenz(a,h)anthracene	500-322382	46	48	134	2	J Flag
SW8270D	LCS 500-322382/2-A	Dibenz(a,h)anthracene	500-322382	46	48	134	9	UJ Flag
SW8270D	LCS 500-322938/2-A	2,4-Dinitrophenol	500-322938	7	10	110	17	UR Flag
SW8270D	LCS 500-322938/2-A	Hexachlorocyclopentadiene	500-322938	9	10	110	17	UR Flag
SW8270D	LCS 500-322939/2-A	2,4-Dinitrophenol	500-322939	5	10	110	11	UR Flag
SW8260B	LCSD 500-323512/5	Bromomethane	500-323512	66	69	120	1	UJ Flag
SW8260B	LCS 500-323512/4	Bromomethane	500-323512	63	69	120	1	UJ Flag
SW8260B	LCSD 500-323207/28	Chloroethane	500-323207	134	49	125	17	None – High & ND
SW8260B	LCSD 500-323152/5	Chloroethane	500-323152	129	49	125	17	None – High & ND

Method	Sample ID	Analyte	Batch ID	Rec.	Low Limit	High Limit	No of Samples	Notes
SW8260B	LCS 500-323072/3	Chloroethane	500-323072	131	49	125	21	None – High & ND
SW8260B	LCSD 500-322973/5	Chloroethane	500-322973	134	49	125	11	None – High & ND
SW8260B	LCSD 500-323326/5	Vinyl acetate	500-323326	161	60	150	10	None – High & ND
SW8260B	LCS 500-323326/4	Vinyl acetate	500-323326	171	60	150	10	None – High & ND
SW8260B	LCSD 500-323039/5	Vinyl acetate	500-323039	175	60	150	13	None – High & ND
SW8260B	LCS 500-323039/4	Vinyl acetate	500-323039	168	60	150	13	None – High & ND

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8270D	LCSD 500-322157/3-A	LCSD	2,4-Dimethylphenol	21	20	None - < 5X PQL
SW8270D	LCSD 500-322157/3-A	LCSD	2,4-Dinitrophenol	32	20	None - < 5X PQL
SW8270D	LCSD 500-322157/3-A	LCSD	2-Methylphenol	21	20	None - < 5X PQL
SW8270D	LCSD 500-322157/3-A	LCSD	Hexachlorocyclopentadiene	22	20	None - < 5X PQL
SW8270D	LCSD 500-322157/3-A	LCSD	Phenol	25	20	None - < 5X PQL

Method	Sample ID	Sample Type	Analyte	RPD	RPD Limit	Sample Qual.
SW8260B	LCSD 500-323064/28	LCSD	2-Butanone (MEK)	35	30	None
SW8260B	LCSD 500-323064/28	LCSD	2-Butanone (MEK)	35	30	None
SW8260B	LCSD 500-323072/28	LCSD	Chloroethane	51	30	None
SW8260B	LCSD 500-323072/28	LCSD	Chloroethane	51	30	None
SW8260B	LCSD 500-323152/5	LCSD	Chloroethane	52	30	None
SW8260B	LCSD 500-323152/5	LCSD	Chloroethane	52	30	None
SW8260B	LCSD 500-323207/28	LCSD	Chloroethane	53	30	None

Table 6 –Samples that were Re-analyzed

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-01A-B05 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B01 (5-10)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	3
2746-01-B02 (8-15)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B03 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B03 (8-12)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B04 (8-17)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B109 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B110 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B112 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B19 (0-2)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B23 (0-2)	SW8270D	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	8
2746-01-B23 (0-2)	SW8270D	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	20	1
2746-01-B23 (0-2)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B37 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B37 (0-8)	SW6010B	DUP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B43 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B43 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B44 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B44 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B45 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B45 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B46 (0-5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B46 (5-10)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B47 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B47 (7-13)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B48 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B48 (7-13)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B49 (0-6.5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B49 (6.5-13)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B49 (6.5-13)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-01-B50 (0-6.5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B50 (6.5-13)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B51 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B51 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B52 (0-6)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B52 (6-12)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B53 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B54 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B54 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B54 (14-20)	SW6010B	DUP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B54 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B54 (7-14)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B55 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B56 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B57 (0-6)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B58 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	3
2746-01-B58 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B59 (0-7)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B59 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B59 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B60 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B60 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B60 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B61 (0-6)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B62 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B62 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B62 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B64 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B68 (0-5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B68 (5-10)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B69 (0-2)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B70 (0-2)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-01-B72 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B74 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B76 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	2
2746-01-B77 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B80 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B82 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B83 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B84 (12-18)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B84 (12-18)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B84 (6-12)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B85 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B85 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B86 (0-6)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B86 (6-12)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B87 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B87 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B87 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B92 (0-5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B92 (5-10)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B93 (0-5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B93 (5-10)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B94 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-G03	SW6020A	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	5	2
2746-02-B01 (0-6)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-02-B01 (12-18)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-02-B01 (6-12)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-02-B02 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	2
2746-02-B02 (13-19)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-18-B01 (0-8)	SW8270D	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	5	1
2746-18-B01 (0-8)D	SW8270D	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	3
2746-18-B01 (0-8)D	SW8260B	SAMP	Diluted due to abundance of non-target analytes and/or matrix; elevated reporting limits provided.	50	37

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-61-B01 (0-5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-01-B05 (16-24)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B05 (24-30)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B05 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B06 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B07 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B07 (0-8)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B07 (16-24)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B07 (24-30)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B07 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B08 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B09 (16-24)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B09 (24-30)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B10 (0-6)	SW6010B	SAMP	Diluted to bring analytes within the calibration curve; no impact on data usability.	10	3
2746-01-B10 (6-11)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B100 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B100 (0-8)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B101 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B102 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B103 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B104 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B105 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B106 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B107 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B108 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B11 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B11 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B12 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B12 (16-24)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-01-B12 (24-30)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B12 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B13 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B13 (8-15)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B14 (0-8)	SW6010B	SAMP	Diluted to bring analytes within the calibration curve; no impact on data usability.	10	2
2746-01-B14 (16-24)	SW6010B	SAMP	Diluted to bring analytes within the calibration curve; no impact on data usability.	10	2
2746-01-B14 (24-30)	SW6010B	SAMP	Diluted to bring analytes within the calibration curve; no impact on data usability.	10	2
2746-01-B14 (8-16)	SW6010B	SAMP	Diluted to bring analytes within the calibration curve; no impact on data usability.	10	2
2746-01-B15 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B15 (8-17)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B16 (0-8)	SW8270D	SAMP	Diluted to bring analytes within the calibration curve; no impact on data usability.	4	9
2746-01-B16 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B16 (16-24)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B16 (24-30)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B16 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B17 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B17 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B18 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B18 (16-24)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B18 (24-30)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B18 (24-30)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B18 (8-16)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B20 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B20 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B20 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B21 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B21 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B25 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B25 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B29 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B29 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B35 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1

Sample ID	Method	Sample Type	Notes	Dilution	No. of Analytes
2746-01-B36 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B38 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B39 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B40 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B41 (0-5)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B41 (5-10)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B42 (0-6)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B42 (6-11)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B88 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B89 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B90 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B91 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B95 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B96 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B97 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B98 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01-B99 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01B-B01 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01B-B01 (0-8)D	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01B-B02 (0-3)	SW8270D	SAMP	Diluted due to abundance of non-target analytes and/or matrix; elevated reporting limits provided.	5	64
2746-01B-B02 (0-3)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	2
2746-01B-B03 (0-7)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01B-B03 (14-20)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01B-B03 (7-14)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1
2746-01B-B04 (0-8)	SW6010B	SAMP	Diluted to bring analyte within the calibration curve; no impact on data usability.	10	1

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B49 (6.5-13)	2746-01-B49 (6.5-13)D	RPD	RPD Rating	Sample Qual
SW6010B	Arsenic	mg/Kg	Solid	0.56	A	6.7	7.5	11.3%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.56	A	44	45	2.2%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.68	0.67	1.5%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.6	0.68	12.5%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.8	A	15	15	0.0%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.54	0.49	9.7%	Good	None
SW6010B	Calcium	mg/Kg	Solid	110	A	64000	61000	4.8%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.56	A	17	18	5.7%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.28	A	13	14	7.4%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.011	0.012	8.7%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.56	A	23	24	4.3%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	A	18000	20000	10.5%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.28	A	13	14	7.4%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.6	A	30000	29000	3.4%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.56	A	390	510	26.7%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.35	0.36	2.8%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	1.8	1.8	0.0%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.019	A	0.022	0.022	0.0%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.04	A	0.013	0.015	14.3%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.56	A	34	36	5.7%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.032	0.033	3.1%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	18.5	17.9	3.3%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	81.5	82.1	0.7%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.36	8.27	1.1%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.04	A	0.032	0.03	6.5%	Good	None
SW6010B	Potassium	mg/Kg	Solid	28	A	2700	2900	7.1%	Good	None
SW6010B	Sodium	mg/Kg	Solid	56	A	220	230	4.4%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.56	A	0.33	0.53	46.5%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.28	A	18	19	5.4%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.1	A	47	53	12.0%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.06	0.12	66.7%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B54 (7-14)	2746-01-B54 (7-14)D	RPD	RPD Rating	Sample Qual
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.039	A	0.06	0.026	79.1%	Poor	J Flag
SW6010B	Arsenic	mg/Kg	Solid	0.58	A	6.1	6.1	0.0%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.58	A	65	47	32.1%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.72	0.7	2.8%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.64	0.7	9.0%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.9	A	11	14	24.0%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.5	0.36	32.6%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.12	A	ND	0.054	NC	--	--
SW6010B	Calcium	mg/Kg	Solid	120	A	63000	64000	1.6%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.58	A	17	17	0.0%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.039	A	0.013	0.016	20.7%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.29	A	13	13	0.0%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.015	0.016	6.5%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.58	A	24	23	4.3%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	A	18000	19000	5.4%	Good	None
SW6010B_TCLP	Iron	mg/L	Solid	0.4	A	0.21	0.22	4.7%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.29	A	14	13	7.4%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.8	A	27000	28000	3.6%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.58	A	370	370	0.0%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.04	0.042	4.9%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	2	2	0.0%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.017	0.02	16.2%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.039	A	0.025	0.021	17.4%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.58	A	35	35	0.0%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.043	0.047	8.9%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	18	17	5.7%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	82	83	1.2%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.04	8.09	0.6%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.039	A	0.037	0.049	27.9%	Good	None
SW6010B	Potassium	mg/Kg	Solid	29	A	2500	3000	18.2%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.039	A	0.0099	0.013	27.1%	Good	None
SW6010B_TCLP	Selenium	mg/L	Solid	0.05	A	0.024	0.021	13.3%	Good	None
SW6010B	Sodium	mg/Kg	Solid	58	A	530	580	9.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.29	A	18	20	10.5%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	A	52	60	14.3%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B54 (7-14)	2746-01-B54 (7-14)D	RPD	RPD Rating	Sample Qual
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.21	ND	NC	--	--

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B59 (0-7)	2746-01-B59 (0-7)D	RPD	RPD Rating	Sample Qual
SW6010B	Arsenic	mg/Kg	Solid	0.54	A	8.7	5.2	50.4%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.54	A	42	29	36.6%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.29	0.28	3.5%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.037	A	ND	0.0055	NC	--	--
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.037	A	ND	0.012	NC	--	--
SW6010B	Beryllium	mg/Kg	Solid	0.22	A	0.38	0.32	17.1%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.7	A	3.4	4.3	23.4%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.65	0.057	167.8%	Poor	J Flag
SW6010B	Cadmium	mg/Kg	Solid	0.11	A	0.11	0.11	0.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	11	A	30000	66000	75.0%	Poor	J Flag
SW6010B	Chromium	mg/Kg	Solid	0.54	A	12	10	18.2%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.27	A	8.9	7	23.9%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.54	A	22	16	31.6%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.037	A	0.0083	0.011	28.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	A	15000	11000	30.8%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.27	A	14	11	24.0%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5.4	A	18000	34000	61.5%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.54	A	560	520	7.4%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	1.3	0.87	39.6%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	1.3	1.6	20.7%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.017	A	0.045	0.027	50.0%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.54	A	23	16	35.9%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.013	0.015	14.3%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	12.4	13.2	6.2%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	87.6	86.8	0.9%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.49	8.56	0.8%	Good	None
SW6010B	Potassium	mg/Kg	Solid	27	A	770	790	2.6%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.037	A	ND	0.0083	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	54	A	410	390	5.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.27	A	21	16	27.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B59 (0-7)	2746-01-B59 (0-7)D	RPD	RPD Rating	Sample Qual
SW6010B	Zinc	mg/Kg	Solid	1.1	A	74	57	26.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B84 (12-18)	2746-01-B84 (12-18)D	RPD	RPD Rating	Sample Qual
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.04	A	0.0075	0.012	46.2%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.6	A	8.2	5.3	43.0%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.6	A	58	47	21.0%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.55	0.6	8.7%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.24	A	0.74	0.66	11.4%	Good	None
SW6010B	Boron	mg/Kg	Solid	3	A	16	14	13.3%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.087	0.072	18.9%	Good	None
SW6010B	Calcium	mg/Kg	Solid	120	A	63000	66000	4.7%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.6	A	18	18	0.0%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.04	A	ND	0.011	NC	--	--
SW6010B	Cobalt	mg/Kg	Solid	0.3	A	9.2	14	41.4%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.013	0.014	7.4%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.6	A	24	24	0.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	A	27000	17000	45.5%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.3	A	13	13	0.0%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	6	A	24000	24000	0.0%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.6	A	300	330	9.5%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.012	ND	NC	--	--
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	1.7	1.8	5.7%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.02	A	0.017	0.019	11.1%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.6	A	31	35	12.1%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.033	0.04	19.2%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	18.8	17.4	7.7%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	81.2	82.6	1.7%	Good	None
SW9045D	pH	SU	Solid	0.2	A	7.85	7.83	0.3%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.04	A	0.022	0.023	4.4%	Good	None
SW6010B	Potassium	mg/Kg	Solid	30	A	2800	2800	0.0%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.04	A	0.0081	0.011	30.4%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.6	A	ND	0.39	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	180	A	ND	190	NC	--	--

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B84 (12-18)	2746-01-B84 (12-18)D	RPD	RPD Rating	Sample Qual
SW6010B	Vanadium	mg/Kg	Solid	0.3	A	20	20	0.0%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	A	58	51	12.8%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-18-B01 (0-8)	2746-18-B01 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.2	A	5.5	17	102.2%	Poor	J Flag
SW8270D	Acenaphthene	mg/Kg	Solid	0.04	A	0.31	ND	NC	--	--
SW6010B	Arsenic	mg/Kg	Solid	0.6	A	5.9	5.4	8.8%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.6	A	72	70	2.8%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.66	0.68	3.0%	Good	None
SW8260B	Benzene	mg/Kg	Solid	0.0043	A	0.003	0.019	145.5%	Poor	J Flag
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.04	A	0.12	0.25	70.3%	Poor	J Flag
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.04	A	0.11	0.23	70.6%	Poor	J Flag
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.04	A	0.17	0.32	61.2%	Good	None
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.04	A	0.051	0.099	64.0%	Good	None
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.04	A	0.074	0.15	67.9%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.24	A	0.67	0.73	8.6%	Good	None
SW6010B	Boron	mg/Kg	Solid	3	A	8.5	10	16.2%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.1	0.11	9.5%	Good	None
SW6010B	Cadmium	mg/Kg	Solid	0.12	A	0.19	0.11	53.3%	Good	None
SW6010B_TCLP	Cadmium	mg/L	Solid	0.005	A	0.0023	0.0024	4.3%	Good	None
SW6010B	Calcium	mg/Kg	Solid	12	A	33000	35000	5.9%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.6	A	17	19	11.1%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.04	A	0.15	0.31	69.6%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.3	A	11	13	16.7%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.029	0.029	0.0%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.6	A	23	25	8.3%	Good	None
SW8270D	Dibenz(a,h)anthracene	mg/Kg	Solid	0.04	A	ND	0.035	NC	--	--
SW8270D	Dibenzofuran	mg/Kg	Solid	0.2	A	0.51	1.7	107.7%	Poor	J Flag
SW8260B	Ethylbenzene	mg/Kg	Solid	0.0043	A	0.0026	0.28	196.3%	Poor	J Flag
SW8270D	Fluoranthene	mg/Kg	Solid	0.04	A	0.48	ND	NC	--	--
SW8270D	Fluorene	mg/Kg	Solid	0.04	A	0.79	4.1	135.4%	Poor	J Flag
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.04	A	0.052	0.1	63.2%	Good	None
SW6010B	Iron	mg/Kg	Solid	12	A	15000	18000	18.2%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-18-B01 (0-8)	2746-18-B01 (0-8)D	RPD	RPD Rating	Sample Qual
SW6010B	Lead	mg/Kg	Solid	0.3	A	94	36	89.2%	Poor	J Flag
SW6010B_SPLP	Lead	mg/L	Solid	0.0075	A	0.096	0.061	44.6%	Good	None
SW6010B_TCLP	Lead	mg/L	Solid	0.0075	A	0.029	0.039	29.4%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	6	A	21000	20000	4.9%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.6	A	310	460	39.0%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.82	0.6	31.0%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	6.6	6.4	3.1%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.02	A	0.038	0.035	8.2%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.04	A	0.52	1.1	71.6%	Poor	J Flag
SW6010B	Nickel	mg/Kg	Solid	0.6	A	27	34	23.0%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.022	0.026	16.7%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	18.9	19	0.5%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	81.1	81	0.1%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.35	8.4	0.6%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.04	A	2.5	11	125.9%	Poor	J Flag
SW6010B	Potassium	mg/Kg	Solid	30	A	1600	2100	27.0%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.04	A	0.72	1.6	75.9%	Poor	J Flag
SW6010B	Selenium	mg/Kg	Solid	0.6	A	1.2	0.82	37.6%	Good	None
SW6010B	Sodium	mg/Kg	Solid	60	A	900	860	4.5%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.6	A	ND	0.57	NC	--	--
SW6010B	Vanadium	mg/Kg	Solid	0.3	A	20	23	14.0%	Good	None
SW8260B	Xylenes, Total	mg/Kg	Solid	0.0085	A	0.0023	0.39	197.7%	Poor	J Flag
SW6010B	Zinc	mg/Kg	Solid	1.2	A	79	73	7.9%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B07 (0-8)	2746-01-B07 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	Anthracene	mg/Kg	Solid	0.039	A	0.01	ND	NC	--	--
SW6010B	Arsenic	mg/Kg	Solid	0.57	A	4	4.6	14.0%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.57	A	60	44	30.8%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.45	0.45	0.0%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.039	A	0.049	0.033	39.0%	Good	None
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.039	A	0.06	0.044	30.8%	Good	None
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.039	A	0.13	0.084	43.0%	Good	None
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.039	A	0.041	0.029	34.3%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B07 (0-8)	2746-01-B07 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.039	A	0.046	0.036	24.4%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.56	0.49	13.3%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.9	A	6.5	7.4	12.9%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.48	0.43	11.0%	Good	None
SW8270D	Butyl benzyl phthalate	mg/Kg	Solid	0.2	A	0.093	ND	NC	--	--
SW6010B	Cadmium	mg/Kg	Solid	0.11	A	0.16	0.21	27.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	110	A	57000	61000	6.8%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.57	A	15	15	0.0%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.039	A	0.068	0.047	36.5%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.29	A	8.1	8.4	3.6%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.57	A	21	28	28.6%	Good	None
SW8270D	Dibenz(a,h)anthracene	mg/Kg	Solid	0.039	A	0.01	ND	NC	--	--
SW8270D	Fluoranthene	mg/Kg	Solid	0.039	A	0.1	0.069	36.7%	Good	None
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.039	A	ND	0.024	NC	--	--
SW6010B	Iron	mg/Kg	Solid	11	A	14000	13000	7.4%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.29	A	68	71	4.3%	Good	None
SW6010B_SPLP	Lead	mg/L	Solid	0.0075	A	NA	0.017	NC	--	--
SW6010B_TCLP	Lead	mg/L	Solid	0.0075	A	ND	0.0082	NC	--	--
SW6010B	Magnesium	mg/Kg	Solid	5.7	A	25000	26000	3.9%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.57	A	290	310	6.7%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.52	0.15	110.4%	Poor	J Flag
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.18	0.72	120.0%	Poor	J Flag
SW7471B	Mercury	mg/Kg	Solid	0.017	A	0.02	0.026	26.1%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.57	A	22	20	9.5%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	16.1	16.7	3.7%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	83.9	83.3	0.7%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.5	8.56	0.7%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.039	A	0.042	0.033	24.0%	Good	None
SW6010B	Potassium	mg/Kg	Solid	29	A	1400	1300	7.4%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.039	A	0.099	0.071	32.9%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.57	A	ND	0.43	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	57	A	1100	910	18.9%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.29	A	22	20	9.5%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.1	A	75	90	18.2%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B100 (0-8)	2746-01-B100 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.04	A	0.03	0.024	22.2%	Good	None
SW8270D	Acenaphthene	mg/Kg	Solid	0.04	A	ND	0.0075	NC	--	--
SW6010B	Arsenic	mg/Kg	Solid	0.6	A	4.7	7.6	47.2%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.87	0.83	4.7%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.6	A	44	42	4.7%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.04	A	0.013	ND	NC	--	--
SW6010B	Beryllium	mg/Kg	Solid	0.24	A	0.5	0.57	13.1%	Good	None
SW6010B	Boron	mg/Kg	Solid	3	A	14	13	7.4%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	2.6	ND	NC	--	--
SW6010B	Calcium	mg/Kg	Solid	120	A	75000	71000	5.5%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.6	A	16	17	6.1%	Good	None
SW6010B_TCLP	Chromium	mg/L	Solid	0.025	A	0.011	ND	NC	--	--
SW8270D	Chrysene	mg/Kg	Solid	0.04	A	0.037	0.049	27.9%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.3	A	10	13	26.1%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.013	0.012	8.0%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.6	A	20	23	14.0%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.04	A	0.018	0.017	5.7%	Good	None
SW8270D	Fluorene	mg/Kg	Solid	0.04	A	0.0073	0.013	56.2%	Good	None
SW6010B_TCLP	Iron	mg/L	Solid	0.4	A	0.69	0.2	110.1%	Poor	J Flag
SW6010B	Iron	mg/Kg	Solid	12	A	15000	18000	18.2%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.3	A	13	19	37.5%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	6	A	32000	31000	3.2%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.042	0.036	15.4%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	1.8	1.9	5.4%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.6	A	280	380	30.3%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.016	0.022	31.6%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.04	A	ND	0.006	NC	--	--
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.036	0.037	2.7%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.6	A	27	34	23.0%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	17.9	16.6	7.5%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	82.1	83.4	1.6%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.2	7.93	3.3%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.04	A	0.074	0.053	33.1%	Good	None
SW6010B	Potassium	mg/Kg	Solid	30	A	2400	2700	11.8%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B100 (0-8)	2746-01-B100 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	Pyrene	mg/Kg	Solid	0.04	A	0.06	0.07	15.4%	Good	None
SW6010B_TCLP	Selenium	mg/L	Solid	0.05	A	0.02	0.023	14.0%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.6	A	ND	0.33	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	60	A	500	500	0.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.3	A	18	19	5.4%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1.2	A	50	52	3.9%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	ND	0.53	NC	--	--

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B18 (24-30)	2746-01-B18 (24-30)D	RPD	RPD Rating	Sample Qual
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.037	A	0.15	0.16	6.5%	Good	None
SW8270D	Acenaphthene	mg/Kg	Solid	0.037	A	0.017	ND	NC	--	--
SW8260B	Acetone	mg/Kg	Solid	0.017	A	0.021	ND	NC	--	--
SW8270D	Anthracene	mg/Kg	Solid	0.037	A	0.0098	ND	NC	--	--
SW6010B	Arsenic	mg/Kg	Solid	0.5	A	6.9	4.2	48.6%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.5	A	26	41	44.8%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.47	0.47	0.0%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.037	A	0.0088	0.0061	36.2%	Good	None
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.037	A	0.014	0.014	0.0%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.2	A	0.48	0.6	22.2%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.5	A	12	13	8.0%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.53	0.53	0.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	100	A	61000	52000	15.9%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.5	A	13	16	20.7%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.037	A	0.032	0.032	0.0%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.25	A	12	12	0.0%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.026	0.022	16.7%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.5	A	25	19	27.3%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.037	A	0.016	0.013	20.7%	Good	None
SW8270D	Fluorene	mg/Kg	Solid	0.037	A	0.017	0.015	12.5%	Good	None
SW6010B	Iron	mg/Kg	Solid	10	A	15000	16000	6.5%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.25	A	13	12	8.0%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	5	A	27000	19000	34.8%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.5	A	350	270	25.8%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B18 (24-30)	2746-01-B18 (24-30)D	RPD	RPD Rating	Sample Qual
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.32	0.28	13.3%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	1.9	1.8	5.4%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.017	A	0.019	0.017	11.1%	Good	None
SW8270D	Naphthalene	mg/Kg	Solid	0.037	A	0.047	0.047	0.0%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.5	A	30	32	6.5%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.061	0.053	14.0%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	11.4	11.3	0.9%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	88.6	88.7	0.1%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.36	8.37	0.1%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.037	A	0.15	0.14	6.9%	Good	None
SW6010B	Potassium	mg/Kg	Solid	25	A	2100	2400	13.3%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.037	A	0.045	0.045	0.0%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.5	A	0.47	ND	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	50	A	160	180	11.8%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.25	A	15	18	18.2%	Good	None
SW6010B	Zinc	mg/Kg	Solid	1	A	55	49	11.5%	Good	None
SW6010B_TCLP	Zinc	mg/L	Solid	0.5	A	0.039	0.12	101.9%	Poor	J Flag

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B26 (0-8)	2746-01-B26 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	Anthracene	mg/Kg	Solid	0.038	A	0.015	0.008	60.9%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.56	A	7	4.8	37.3%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.56	A	64	69	7.5%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.61	0.62	1.6%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.038	A	0.073	0.045	47.5%	Good	None
SW8270D	Benzo[a]pyrene	mg/Kg	Solid	0.038	A	0.074	0.05	38.7%	Good	None
SW8270D	Benzo[b]fluoranthene	mg/Kg	Solid	0.038	A	0.14	0.097	36.3%	Good	None
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.038	A	0.031	0.024	25.5%	Good	None
SW8270D	Benzo[k]fluoranthene	mg/Kg	Solid	0.038	A	0.043	0.037	15.0%	Good	None
SW6010B	Beryllium	mg/Kg	Solid	0.23	A	0.65	0.62	4.7%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.8	A	7	7.4	5.6%	Good	None
SW6010B	Calcium	mg/Kg	Solid	11	A	29000	23000	23.1%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.56	A	16	18	11.8%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.038	A	0.094	0.064	38.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01-B26 (0-8)	2746-01-B26 (0-8)D	RPD	RPD Rating	Sample Qual
SW6010B	Cobalt	mg/Kg	Solid	0.28	A	11	8.2	29.2%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.56	A	27	23	16.0%	Good	None
SW8270D	Dibenz(a,h)anthracene	mg/Kg	Solid	0.038	A	0.01	ND	NC	--	--
SW8270D	Fluoranthene	mg/Kg	Solid	0.038	A	0.15	0.095	44.9%	Good	None
SW8270D	Fluorene	mg/Kg	Solid	0.038	A	0.0063	ND	NC	--	--
SW8270D	Indeno[1,2,3-cd]pyrene	mg/Kg	Solid	0.038	A	0.029	0.021	32.0%	Good	None
SW6010B	Iron	mg/Kg	Solid	11	A	18000	16000	11.8%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.28	A	19	17	11.1%	Good	None
SW6010B_SPLP	Lead	mg/L	Solid	0.05	A	NA	0.046	NC	--	--
SW6010B_TCLP	Lead	mg/L	Solid	0.0075	A	ND	0.0082	NC	--	--
SW6010B	Magnesium	mg/Kg	Solid	5.6	A	19000	14000	30.3%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.56	A	300	230	26.4%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.31	0.38	20.3%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	0.5	0.89	56.1%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.018	A	0.035	0.04	13.3%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.56	A	28	26	7.4%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	16.9	16.6	1.8%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	83.1	83.4	0.4%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.44	8.42	0.2%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.038	A	0.07	0.046	41.4%	Good	None
SW6010B	Potassium	mg/Kg	Solid	28	A	1400	1600	13.3%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.038	A	0.14	0.09	43.5%	Good	None
SW6010B	Selenium	mg/Kg	Solid	0.56	A	ND	0.53	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	56	A	320	350	9.0%	Good	None
SW6010B	Vanadium	mg/Kg	Solid	0.28	A	27	21	25.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01B-B01 (0-8)	2746-01B-B01 (0-8)D	RPD	RPD Rating	Sample Qual
SW8270D	2-Methylnaphthalene	mg/Kg	Solid	0.037	A	0.13	0.13	0.0%	Good	None
SW6010B	Arsenic	mg/Kg	Solid	0.46	A	5	6.1	19.8%	Good	None
SW6010B	Barium	mg/Kg	Solid	0.46	A	46	44	4.4%	Good	None
SW6010B_TCLP	Barium	mg/L	Solid	0.5	A	0.52	0.44	16.7%	Good	None
SW8270D	Benzo[a]anthracene	mg/Kg	Solid	0.037	A	ND	0.021	NC	--	--
SW8270D	Benzo[g,h,i]perylene	mg/Kg	Solid	0.037	A	0.034	0.034	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	Anal Type	2746-01B-B01 (0-8)	2746-01B-B01 (0-8)D	RPD	RPD Rating	Sample Qual
SW6010B	Beryllium	mg/Kg	Solid	0.18	A	0.59	0.61	3.3%	Good	None
SW6010B	Boron	mg/Kg	Solid	2.3	A	14	14	0.0%	Good	None
SW6010B_TCLP	Boron	mg/L	Solid	0.5	A	0.086	0.081	6.0%	Good	None
SW6010B	Calcium	mg/Kg	Solid	91	A	58000	62000	6.7%	Good	None
SW6010B	Chromium	mg/Kg	Solid	0.46	A	16	16	0.0%	Good	None
SW8270D	Chrysene	mg/Kg	Solid	0.037	A	0.04	0.058	36.7%	Good	None
SW6010B	Cobalt	mg/Kg	Solid	0.23	A	12	14	15.4%	Good	None
SW6010B_TCLP	Cobalt	mg/L	Solid	0.025	A	0.01	0.011	9.5%	Good	None
SW6010B	Copper	mg/Kg	Solid	0.46	A	22	24	8.7%	Good	None
SW8270D	Fluoranthene	mg/Kg	Solid	0.037	A	ND	0.039	NC	--	--
SW8270D	Fluorene	mg/Kg	Solid	0.037	A	0.0072	0.0074	2.7%	Good	None
SW6010B	Iron	mg/Kg	Solid	9.1	A	16000	17000	6.1%	Good	None
SW6010B	Lead	mg/Kg	Solid	0.23	A	12	13	8.0%	Good	None
SW6010B	Magnesium	mg/Kg	Solid	4.6	A	26000	29000	10.9%	Good	None
SW6010B	Manganese	mg/Kg	Solid	0.46	A	310	310	0.0%	Good	None
SW6010B_SPLP	Manganese	mg/L	Solid	0.025	A	0.34	0.34	0.0%	Good	None
SW6010B_TCLP	Manganese	mg/L	Solid	0.025	A	1.6	1.9	17.1%	Good	None
SW7471B	Mercury	mg/Kg	Solid	0.017	A	ND	0.015	NC	--	--
SW8270D	Naphthalene	mg/Kg	Solid	0.037	A	0.044	0.047	6.6%	Good	None
SW6010B	Nickel	mg/Kg	Solid	0.46	A	32	35	9.0%	Good	None
SW6010B_TCLP	Nickel	mg/L	Solid	0.025	A	0.023	0.023	0.0%	Good	None
EMoisture	Percent Moisture	%	Solid	0.1	A	13.8	17.1	21.4%	Good	None
EMoisture	Percent Solids	%	Solid	0.1	A	86.2	82.9	3.9%	Good	None
SW9045D	pH	SU	Solid	0.2	A	8.59	8.41	2.1%	Good	None
SW8270D	Phenanthrene	mg/Kg	Solid	0.037	A	0.088	0.098	10.8%	Good	None
SW6010B	Potassium	mg/Kg	Solid	23	A	2600	2600	0.0%	Good	None
SW8270D	Pyrene	mg/Kg	Solid	0.037	A	0.052	0.13	85.7%	Poor	J Flag
SW6010B	Selenium	mg/Kg	Solid	0.46	A	0.36	ND	NC	--	--
SW6010B	Sodium	mg/Kg	Solid	46	A	590	830	33.8%	Good	None
SW6010B	Thallium	mg/Kg	Solid	0.46	A	0.41	ND	NC	--	--
SW6010B	Vanadium	mg/Kg	Solid	0.23	A	19	18	5.4%	Good	None
SW6010B	Zinc	mg/Kg	Solid	0.91	A	49	52	5.9%	Good	None

TestAmerica

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ANALYTICAL REPORT

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TestAmerica Job ID: 500-106984-1
Client Project/Site: IDOT - Interstate 90 - WO 005

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Attn: Mr. Dean Tiebout



Authorized for release by:
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Job ID: 500-106984-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-106984-1

Comments

No additional comments.

Receipt

The samples were received on 1/29/2016 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.7° C and 5.2° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-321546 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2746-01-B92 (0-5) (500-106984-1), 2746-01-B92 (5-10) (500-106984-2), 2746-01-B93 (0-5) (500-106984-3), 2746-01-B93 (5-10) (500-106984-4), 2746-01-B94 (0-8) (500-106984-5), 2746-01-B111 (0-8) (500-106984-6), 2746-01-B112 (0-8) (500-106984-7), 2746-01-B110 (0-8) (500-106984-8), 2746-01-B109 (0-8) (500-106984-9), 2746-01-B57 (0-6) (500-106984-10), 2746-01-B56 (0-8) (500-106984-11), 2746-01-B55 (0-8) (500-106984-12), 2746-01-B54 (0-7) (500-106984-13), 2746-01-B54 (7-14) (500-106984-14), 2746-01-B54 (7-14)D (500-106984-15) and 2746-01-B54 (14-20) (500-106984-16).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-321546 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Vinyl Acetate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch preparation batch 500-321513 and analytical batch 500-321559 had 1 analyte outside control limits: 2,4-Dinitrophenol. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid and/or base/neutral surrogate outside acceptance limits: 2746-01-B57 (0-6) (500-106984-10). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The laboratory control sample (LCS) for batch preparation batch 500-321479, 500-321480, 500-321479 and 500-321610 and analytical batch 500-321878 recovered outside control limits for the following analyte: Iron. The analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (0-5)

Lab Sample ID: 500-106984-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0092	J F1	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0084	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.26	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	6.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.068	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	860	B	56	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.27	J *	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.59		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.81		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.017	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.096	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (5-10) (Continued)

Lab Sample ID: 500-106984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	25		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	360	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.066	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.07		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.017	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0088	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	580	B	55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (0-5) (Continued)

Lab Sample ID: 500-106984-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.017	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.044		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.029	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.31	J	1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.069	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	94000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	8.2		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	42000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	250		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	230	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	31		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.064	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.019	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.023	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0072	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0086	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.25		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.036	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.51		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B94 (0-8) (Continued)

Lab Sample ID: 500-106984-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.48		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.26		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.41		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.18		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.23		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.040		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	13		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.079	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	71		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	450	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.35		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.17		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.066		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	93		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	3.6		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.039	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	4700	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B111 (0-8) (Continued)

Lab Sample ID: 500-106984-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	20	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	5700	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	130	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.33		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.029	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0078	J	0.039	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0057	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	8.7		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	60		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	43000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	920	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B112 (0-8) (Continued)

Lab Sample ID: 500-106984-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.044	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.050		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.058		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.030	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.020	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	440	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.41	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.20	J *	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.074	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B109 (0-8) (Continued)

Lab Sample ID: 500-106984-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.025	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.058		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.040		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0073	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	14		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.057	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	240	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.00		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0069	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.014	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	10		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.050	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B57 (0-6) (Continued)

Lab Sample ID: 500-106984-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	17000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	36000	B	5.5	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500	B	55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.20	J*	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.43	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.98		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.46		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.037	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.044		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.046		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.030	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.6		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	9.7		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.7		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	26	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.7		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	83		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	27000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	3300		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	270		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.37	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.19	J	0.29	0.068	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B56 (0-8) (Continued)

Lab Sample ID: 500-106984-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	600	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	400		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0027	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J *	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.070		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.048	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.026	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.063		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.062		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.063		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.027	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.047		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.065		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.019	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	11		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.074	J	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	580	B	60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B55 (0-8) (Continued)

Lab Sample ID: 500-106984-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0096		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.18		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.031		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.018	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.020	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.056		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.023	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0055	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.056	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100	B	55	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.45	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.025	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.060		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0099	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	530	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.72		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21	J*	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.024	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.04		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.021	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.026	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.049		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.054	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)D (Continued)

Lab Sample ID: 500-106984-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	580	B	57	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22	J*	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.021	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.10	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.09		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.027	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.081		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.041		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	13	F1	2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.053	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	400	B	59	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (14-20) (Continued)

Lab Sample ID: 500-106984-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0094	mg/Kg	1	✳	7471B	Total/NA
pH	8.92		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-106984-1	2746-01-B92 (0-5)	Solid	01/29/16 11:30	01/29/16 17:10
500-106984-2	2746-01-B92 (5-10)	Solid	01/29/16 11:35	01/29/16 17:10
500-106984-3	2746-01-B93 (0-5)	Solid	01/29/16 11:55	01/29/16 17:10
500-106984-4	2746-01-B93 (5-10)	Solid	01/29/16 12:00	01/29/16 17:10
500-106984-5	2746-01-B94 (0-8)	Solid	01/29/16 12:15	01/29/16 17:10
500-106984-6	2746-01-B111 (0-8)	Solid	01/29/16 12:55	01/29/16 17:10
500-106984-7	2746-01-B112 (0-8)	Solid	01/29/16 13:10	01/29/16 17:10
500-106984-8	2746-01-B110 (0-8)	Solid	01/29/16 13:20	01/29/16 17:10
500-106984-9	2746-01-B109 (0-8)	Solid	01/29/16 13:35	01/29/16 17:10
500-106984-10	2746-01-B57 (0-6)	Solid	01/29/16 14:30	01/29/16 17:10
500-106984-11	2746-01-B56 (0-8)	Solid	01/29/16 14:45	01/29/16 17:10
500-106984-12	2746-01-B55 (0-8)	Solid	01/29/16 15:05	01/29/16 17:10
500-106984-13	2746-01-B54 (0-7)	Solid	01/29/16 15:35	01/29/16 17:10
500-106984-14	2746-01-B54 (7-14)	Solid	01/29/16 15:40	01/29/16 17:10
500-106984-15	2746-01-B54 (7-14)D	Solid	01/29/16 15:40	01/29/16 17:10
500-106984-16	2746-01-B54 (14-20)	Solid	01/29/16 15:50	01/29/16 17:10

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (0-5)

Lab Sample ID: 500-106984-1

Date Collected: 01/29/16 11:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,1-Dichloroethene	<0.0040	*	0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	01/29/16 17:54	02/02/16 13:08	1
Dibromofluoromethane	105		75 - 120	01/29/16 17:54	02/02/16 13:08	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/29/16 17:54	02/02/16 13:08	1
Toluene-d8 (Surr)	111		75 - 122	01/29/16 17:54	02/02/16 13:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (0-5)

Lab Sample ID: 500-106984-1

Date Collected: 01/29/16 11:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4-Chloroaniline	<0.79	F2	0.79	0.18	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,4-Dinitrophenol	<0.79	F1 *	0.79	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
4,6-Dinitro-2-methylphenol	<0.79	F1	0.79	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Pyrene	0.022	J	0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (0-5)

Lab Sample ID: 500-106984-1

Date Collected: 01/29/16 11:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Benzo[b]fluoranthene	0.0092	J F1	0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Benzo[a]pyrene	0.0084	J	0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
Benzo[g,h,i]perylene	<0.039	F1	0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		25 - 110	02/01/16 16:46	02/03/16 11:43	1
Phenol-d5	73		31 - 110	02/01/16 16:46	02/03/16 11:43	1
Nitrobenzene-d5	84		25 - 115	02/01/16 16:46	02/03/16 11:43	1
2-Fluorobiphenyl	71		25 - 119	02/01/16 16:46	02/03/16 11:43	1
2,4,6-Tribromophenol	57		35 - 137	02/01/16 16:46	02/03/16 11:43	1
Terphenyl-d14	102		36 - 134	02/01/16 16:46	02/03/16 11:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.1	0.23	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Arsenic	6.3		0.56	0.26	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Barium	53		0.56	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Beryllium	0.74		0.22	0.048	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Boron	12		2.8	0.39	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Cadmium	0.068	J	0.11	0.032	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Calcium	62000	B	110	36	mg/Kg	☼	01/31/16 10:33	02/02/16 19:16	10
Chromium	19	B	0.56	0.096	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Cobalt	11		0.28	0.063	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Copper	25		0.56	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Iron	20000	B	11	4.3	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Lead	13		0.28	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Magnesium	24000	B	5.6	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Manganese	350		0.56	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Nickel	35		0.56	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Potassium	2800		28	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Selenium	0.40	J	0.56	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Sodium	860	B	56	7.3	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Vanadium	20		0.28	0.081	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1
Zinc	56		1.1	0.35	mg/Kg	☼	01/31/16 10:33	02/01/16 20:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 19:21	1
Boron	0.42	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (0-5)

Lab Sample ID: 500-106984-1

Date Collected: 01/29/16 11:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 19:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:21	1
Iron	0.27	J *	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 19:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 19:21	1
Manganese	1.7		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 19:21	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:21	1
Zinc	0.18	J	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 19:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.59		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 18:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0098	mg/Kg	☼	02/03/16 09:20	02/03/16 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.81		0.200	0.200	SU			02/03/16 15:10	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Date Collected: 01/29/16 11:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,1-Dichloroethene	<0.0044	*	0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/29/16 17:54	02/02/16 13:33	1
Dibromofluoromethane	106		75 - 120	01/29/16 17:54	02/02/16 13:33	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/29/16 17:54	02/02/16 13:33	1
Toluene-d8 (Surr)	112		75 - 122	01/29/16 17:54	02/02/16 13:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Date Collected: 01/29/16 11:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Phenanthrene	0.017	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Pyrene	0.014	J	0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Date Collected: 01/29/16 11:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110	02/01/16 16:46	02/03/16 13:19	1
Phenol-d5	66		31 - 110	02/01/16 16:46	02/03/16 13:19	1
Nitrobenzene-d5	75		25 - 115	02/01/16 16:46	02/03/16 13:19	1
2-Fluorobiphenyl	64		25 - 119	02/01/16 16:46	02/03/16 13:19	1
2,4,6-Tribromophenol	59		35 - 137	02/01/16 16:46	02/03/16 13:19	1
Terphenyl-d14	107		36 - 134	02/01/16 16:46	02/03/16 13:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Arsenic	5.6		0.57	0.26	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Barium	40		0.57	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Beryllium	0.72		0.23	0.049	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Boron	12		2.8	0.40	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Cadmium	0.096	J	0.11	0.033	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Calcium	63000	B	110	37	mg/Kg	☼	01/31/16 10:33	02/02/16 19:20	10
Chromium	19	B	0.57	0.098	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Cobalt	15		0.28	0.064	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Copper	25		0.57	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Iron	20000	B	11	4.4	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Lead	14		0.28	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Magnesium	27000	B	5.7	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Manganese	360		0.57	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Nickel	37		0.57	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Potassium	2900		28	4.6	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Selenium	0.41	J	0.57	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Sodium	360	B	57	7.5	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Vanadium	21		0.28	0.083	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1
Zinc	58		1.1	0.36	mg/Kg	☼	01/31/16 10:33	02/01/16 20:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 19:26	1
Boron	0.32	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Date Collected: 01/29/16 11:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 19:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:26	1
Cobalt	0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:26	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 19:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 19:26	1
Manganese	2.1		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:26	1
Nickel	0.051		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 19:26	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:26	1
Zinc	0.066	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 19:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.033		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 19:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			02/03/16 15:15	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,1-Dichloroethene	<0.0044	*	0.0044	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Vinyl acetate	<0.0044	*	0.0044	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	01/29/16 17:54	02/02/16 13:59	1
Dibromofluoromethane	104		75 - 120	01/29/16 17:54	02/02/16 13:59	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/29/16 17:54	02/02/16 13:59	1
Toluene-d8 (Surr)	110		75 - 122	01/29/16 17:54	02/02/16 13:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2-Methylnaphthalene	0.017	J	0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Phenanthrene	0.022	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Pyrene	0.0088	J	0.039	0.0079	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		25 - 110	02/01/16 16:46	02/03/16 13:42	1
Phenol-d5	77		31 - 110	02/01/16 16:46	02/03/16 13:42	1
Nitrobenzene-d5	88		25 - 115	02/01/16 16:46	02/03/16 13:42	1
2-Fluorobiphenyl	75		25 - 119	02/01/16 16:46	02/03/16 13:42	1
2,4,6-Tribromophenol	58		35 - 137	02/01/16 16:46	02/03/16 13:42	1
Terphenyl-d14	111		36 - 134	02/01/16 16:46	02/03/16 13:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Arsenic	5.6		0.55	0.26	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Barium	45		0.55	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Beryllium	0.66		0.22	0.048	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Boron	12		2.8	0.39	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Calcium	61000	B	110	36	mg/Kg	☼	01/31/16 10:33	02/02/16 19:24	10
Chromium	18	B	0.55	0.095	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Cobalt	11		0.28	0.062	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Copper	22		0.55	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Iron	18000	B	11	4.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Lead	13		0.28	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Magnesium	26000	B	5.5	2.2	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Manganese	320		0.55	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Nickel	33		0.55	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Potassium	2700		28	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Sodium	580	B	55	7.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Vanadium	20		0.28	0.081	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1
Zinc	52		1.1	0.35	mg/Kg	☼	01/31/16 10:33	02/01/16 21:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 19:47	1
Boron	0.39	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 19:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:47	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:47	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 19:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 19:47	1
Manganese	1.8		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:47	1
Nickel	0.045		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 19:47	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:47	1
Zinc	0.11	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 19:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.032		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 19:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0094	mg/Kg	☼	02/03/16 09:20	02/03/16 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			02/03/16 15:18	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Date Collected: 01/29/16 12:00

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,1-Dichloroethene	<0.0039	*	0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Vinyl acetate	<0.0039	*	0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	01/29/16 17:54	02/02/16 14:24	1
Dibromofluoromethane	102		75 - 120	01/29/16 17:54	02/02/16 14:24	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	01/29/16 17:54	02/02/16 14:24	1
Toluene-d8 (Surr)	113		75 - 122	01/29/16 17:54	02/02/16 14:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Date Collected: 01/29/16 12:00

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Naphthalene	0.017	J	0.039	0.0060	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2-Methylnaphthalene	0.044		0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Phenanthrene	0.029	J	0.039	0.0054	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Date Collected: 01/29/16 12:00

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110	02/01/16 16:46	02/03/16 14:06	1
Phenol-d5	67		31 - 110	02/01/16 16:46	02/03/16 14:06	1
Nitrobenzene-d5	79		25 - 115	02/01/16 16:46	02/03/16 14:06	1
2-Fluorobiphenyl	67		25 - 119	02/01/16 16:46	02/03/16 14:06	1
2,4,6-Tribromophenol	53		35 - 137	02/01/16 16:46	02/03/16 14:06	1
Terphenyl-d14	108		36 - 134	02/01/16 16:46	02/03/16 14:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.24	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Arsenic	3.3		0.58	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Barium	52		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Beryllium	0.50		0.23	0.050	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Boron	12		2.9	0.40	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Cadmium	0.069	J	0.12	0.034	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Calcium	94000	B	120	37	mg/Kg	☼	01/31/16 10:33	02/02/16 19:28	10
Chromium	14	B	0.58	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Cobalt	7.5		0.29	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Copper	15		0.58	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Iron	12000	B	12	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Lead	8.2		0.29	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Magnesium	42000	B	5.8	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Manganese	250		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Nickel	20		0.58	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Potassium	2200		29	4.7	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Sodium	230	B	58	7.6	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Vanadium	16		0.29	0.084	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1
Zinc	31		1.2	0.37	mg/Kg	☼	01/31/16 10:33	02/01/16 21:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 19:52	1
Boron	0.36	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Date Collected: 01/29/16 12:00

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 19:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:52	1
Cobalt	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:52	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 19:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 19:52	1
Manganese	1.5		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:52	1
Nickel	0.048		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 19:52	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:52	1
Zinc	0.064	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 19:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.019	J	0.025	0.010	mg/L		02/02/16 14:47	02/03/16 19:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0095	mg/Kg	☼	02/03/16 09:20	02/03/16 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			02/03/16 15:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Bromodichloromethane	<0.0048		0.0048	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Bromoform	<0.0048		0.0048	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Dibromochloromethane	<0.0048		0.0048	0.00056	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,2-Dichloroethane	<0.0048		0.0048	0.00072	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,1-Dichloroethene	<0.0048	*	0.0048	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Methylene Chloride	<0.0048		0.0048	0.0037	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,1,1,2-Tetrachloroethane	<0.0048		0.0048	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Vinyl acetate	<0.0048	*	0.0048	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/29/16 17:54	02/02/16 14:49	1
Dibromofluoromethane	107		75 - 120	01/29/16 17:54	02/02/16 14:49	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/29/16 17:54	02/02/16 14:49	1
Toluene-d8 (Surr)	113		75 - 122	01/29/16 17:54	02/02/16 14:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Naphthalene	0.023	J	0.040	0.0061	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,4-Dinitrophenol	<0.81	*	0.81	0.70	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Acenaphthylene	0.0090	J	0.040	0.0053	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Acenaphthene	0.0072	J	0.040	0.0072	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Fluorene	0.0086	J	0.040	0.0056	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Phenanthrene	0.25		0.040	0.0056	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Anthracene	0.036	J	0.040	0.0067	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Fluoranthene	0.51		0.040	0.0074	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Pyrene	0.48		0.040	0.0079	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Benzo[a]anthracene	0.22		0.040	0.0054	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.26		0.040	0.011	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Benzo[b]fluoranthene	0.41		0.040	0.0086	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Benzo[k]fluoranthene	0.18		0.040	0.012	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Benzo[a]pyrene	0.23		0.040	0.0077	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.010	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Dibenz(a,h)anthracene	0.040		0.040	0.0077	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Benzo[g,h,i]perylene	0.15		0.040	0.013	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/10/16 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110				02/01/16 16:46	02/10/16 15:13	1
Phenol-d5	77		31 - 110				02/01/16 16:46	02/10/16 15:13	1
Nitrobenzene-d5	70		25 - 115				02/01/16 16:46	02/10/16 15:13	1
2-Fluorobiphenyl	72		25 - 119				02/01/16 16:46	02/10/16 15:13	1
2,4,6-Tribromophenol	39		35 - 137				02/01/16 16:46	02/10/16 15:13	1
Terphenyl-d14	107		36 - 134				02/01/16 16:46	02/10/16 15:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Arsenic	6.3		0.59	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Barium	48		0.59	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Beryllium	0.69		0.24	0.051	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Boron	13		3.0	0.41	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Cadmium	0.079	J	0.12	0.034	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Calcium	62000	B	120	38	mg/Kg	☼	01/31/16 10:33	02/02/16 19:33	10
Chromium	18	B	0.59	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Cobalt	13		0.30	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Copper	26		0.59	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Iron	20000	B	12	4.6	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Lead	71		0.30	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Magnesium	27000	B	5.9	2.4	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Manganese	370		0.59	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Nickel	35		0.59	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Potassium	2800		30	4.8	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Selenium	0.33	J	0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Sodium	450	B	59	7.8	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Vanadium	20		0.30	0.087	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1
Zinc	64		1.2	0.38	mg/Kg	☼	01/31/16 10:33	02/01/16 21:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:06	1
Boron	0.37	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0035	J	0.0050	0.0020	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Cobalt	0.016	J	0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Iron	<0.40	*	0.40	0.20	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Lead	0.35		0.0075	0.0075	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Manganese	1.9		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Nickel	0.051		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Silver	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:06	1
Zinc	0.15	J B	0.50	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:06	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.17		0.0075	0.0075	mg/L	-	02/02/16 14:47	02/03/16 19:47	1
Manganese	0.17		0.025	0.010	mg/L	-	02/02/16 14:47	02/03/16 19:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/02/16 14:50	02/04/16 18:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/02/16 14:50	02/04/16 18:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/02/16 12:00	02/03/16 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066		0.019	0.0098	mg/Kg	☼	02/03/16 09:20	02/03/16 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU	-		02/03/16 15:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Date Collected: 01/29/16 12:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,1-Dichloroethene	<0.0043	*	0.0043	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Vinyl acetate	<0.0043	*	0.0043	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/29/16 17:54	02/02/16 15:14	1
Dibromofluoromethane	107		75 - 120	01/29/16 17:54	02/02/16 15:14	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/29/16 17:54	02/02/16 15:14	1
Toluene-d8 (Surr)	108		75 - 122	01/29/16 17:54	02/02/16 15:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Date Collected: 01/29/16 12:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Date Collected: 01/29/16 12:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110	02/01/16 16:46	02/03/16 10:56	1
Phenol-d5	68		31 - 110	02/01/16 16:46	02/03/16 10:56	1
Nitrobenzene-d5	80		25 - 115	02/01/16 16:46	02/03/16 10:56	1
2-Fluorobiphenyl	66		25 - 119	02/01/16 16:46	02/03/16 10:56	1
2,4,6-Tribromophenol	61		35 - 137	02/01/16 16:46	02/03/16 10:56	1
Terphenyl-d14	98		36 - 134	02/01/16 16:46	02/03/16 10:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Arsenic	6.5		0.57	0.26	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Barium	93		0.57	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Beryllium	0.78		0.23	0.049	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Boron	3.6		2.9	0.40	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Cadmium	0.039	J	0.11	0.033	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Calcium	4700	B	11	3.7	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Chromium	20	B	0.57	0.098	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Cobalt	13		0.29	0.064	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Copper	20		0.57	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Iron	20000	B	11	4.4	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Lead	19		0.29	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Magnesium	5700	B	5.7	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Manganese	290		0.57	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Nickel	30		0.57	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Potassium	1400		29	4.7	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Sodium	130	B	57	7.5	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Vanadium	25		0.29	0.083	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1
Zinc	64		1.1	0.36	mg/Kg	☼	01/31/16 10:33	02/01/16 21:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:11	1
Boron	0.37	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Date Collected: 01/29/16 12:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 20:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:11	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 20:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 20:11	1
Manganese	0.44		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 20:11	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:11	1
Zinc	0.16	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 20:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.044		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 20:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0099	mg/Kg	☼	02/03/16 09:20	02/03/16 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.33		0.200	0.200	SU			02/03/16 15:26	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Date Collected: 01/29/16 13:10

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,1-Dichloroethene	<0.0041	*	0.0041	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	01/29/16 17:54	02/02/16 15:38	1
Dibromofluoromethane	107		75 - 120	01/29/16 17:54	02/02/16 15:38	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	01/29/16 17:54	02/02/16 15:38	1
Toluene-d8 (Surr)	115		75 - 122	01/29/16 17:54	02/02/16 15:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Date Collected: 01/29/16 13:10

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Phenanthrene	0.029	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Fluoranthene	0.0078	J	0.039	0.0074	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Pyrene	0.011	J	0.039	0.0079	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Benzo[a]anthracene	0.0057	J	0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Date Collected: 01/29/16 13:10

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110	02/01/16 16:46	02/03/16 12:07	1
Phenol-d5	75		31 - 110	02/01/16 16:46	02/03/16 12:07	1
Nitrobenzene-d5	82		25 - 115	02/01/16 16:46	02/03/16 12:07	1
2-Fluorobiphenyl	74		25 - 119	02/01/16 16:46	02/03/16 12:07	1
2,4,6-Tribromophenol	74		35 - 137	02/01/16 16:46	02/03/16 12:07	1
Terphenyl-d14	127		36 - 134	02/01/16 16:46	02/03/16 12:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/31/16 10:33	02/02/16 19:37	1
Arsenic	6.8		0.58	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Barium	32		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Beryllium	0.43		0.23	0.050	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Boron	8.7		2.9	0.40	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Cadmium	0.16		0.12	0.033	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Calcium	90000	B	120	37	mg/Kg	☼	01/31/16 10:33	02/02/16 19:42	10
Chromium	14	B	0.58	0.099	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Cobalt	8.4		0.29	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Copper	24		0.58	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Iron	16000	B	12	4.4	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Lead	60		0.29	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Magnesium	43000	B	5.8	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Manganese	300		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Nickel	24		0.58	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Potassium	1500		29	4.7	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Sodium	920	B	58	7.6	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Vanadium	16		0.29	0.084	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1
Zinc	60		1.2	0.37	mg/Kg	☼	01/31/16 10:33	02/01/16 21:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:16	1
Boron	0.35	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Date Collected: 01/29/16 13:10

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 20:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:16	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:16	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 20:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 20:16	1
Manganese	2.1		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:16	1
Nickel	0.035		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 20:16	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:16	1
Zinc	0.044	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 20:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.014	J	0.025	0.010	mg/L		02/02/16 14:47	02/03/16 20:16	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0098	mg/Kg	☼	02/03/16 09:20	02/03/16 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			02/03/16 15:29	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,1-Dichloroethene	<0.0039	*	0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Vinyl acetate	<0.0039	*	0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/29/16 17:54	02/02/16 16:04	1
Dibromofluoromethane	107		75 - 120	01/29/16 17:54	02/02/16 16:04	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	01/29/16 17:54	02/02/16 16:04	1
Toluene-d8 (Surr)	116		75 - 122	01/29/16 17:54	02/02/16 16:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Naphthalene	0.024	J	0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2-Methylnaphthalene	0.050		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,4-Dinitrophenol	<0.80	*	0.80	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Phenanthrene	0.058		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Fluoranthene	0.047		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Pyrene	0.045		0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Benzo[a]anthracene	0.019	J	0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.033	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Benzo[b]fluoranthene	0.030	J	0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Benzo[a]pyrene	0.020	J	0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Indeno[1,2,3-cd]pyrene	0.013	J	0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		25 - 110	02/01/16 16:46	02/03/16 12:31	1
Phenol-d5	75		31 - 110	02/01/16 16:46	02/03/16 12:31	1
Nitrobenzene-d5	88		25 - 115	02/01/16 16:46	02/03/16 12:31	1
2-Fluorobiphenyl	74		25 - 119	02/01/16 16:46	02/03/16 12:31	1
2,4,6-Tribromophenol	53		35 - 137	02/01/16 16:46	02/03/16 12:31	1
Terphenyl-d14	108		36 - 134	02/01/16 16:46	02/03/16 12:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/31/16 10:33	02/02/16 19:46	1
Arsenic	5.7		0.59	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Barium	48		0.59	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Beryllium	0.66		0.23	0.051	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Boron	13		2.9	0.41	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Cadmium	0.10	J	0.12	0.034	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Calcium	60000	B	120	38	mg/Kg	☼	01/31/16 10:33	02/02/16 19:51	10
Chromium	18	B	0.59	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Cobalt	14		0.29	0.066	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Copper	25		0.59	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Iron	18000	B	12	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Lead	13		0.29	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Magnesium	27000	B	5.9	2.4	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Manganese	360		0.59	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Nickel	36		0.59	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Potassium	2800		29	4.8	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Sodium	440	B	59	7.8	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Vanadium	20		0.29	0.086	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1
Zinc	57		1.2	0.37	mg/Kg	☼	01/31/16 10:33	02/01/16 21:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.41	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:22	1
Boron	0.40	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 20:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:22	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:22	1
Iron	0.20	J*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 20:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 20:22	1
Manganese	2.0		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:22	1
Nickel	0.044		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 20:22	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:22	1
Zinc	0.074	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 20:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.025		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 20:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			02/03/16 15:32	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,1-Dichloroethene	<0.0039	*	0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Vinyl acetate	<0.0039	*	0.0039	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/29/16 17:54	02/02/16 16:29	1
Dibromofluoromethane	102		75 - 120	01/29/16 17:54	02/02/16 16:29	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	01/29/16 17:54	02/02/16 16:29	1
Toluene-d8 (Surr)	117		75 - 122	01/29/16 17:54	02/02/16 16:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Naphthalene	0.025	J	0.039	0.0060	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2-Methylnaphthalene	0.058		0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Phenanthrene	0.040		0.039	0.0054	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Fluoranthene	0.0073	J	0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Pyrene	0.012	J	0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	02/01/16 16:46	02/03/16 14:30	1
Phenol-d5	64		31 - 110	02/01/16 16:46	02/03/16 14:30	1
Nitrobenzene-d5	70		25 - 115	02/01/16 16:46	02/03/16 14:30	1
2-Fluorobiphenyl	62		25 - 119	02/01/16 16:46	02/03/16 14:30	1
2,4,6-Tribromophenol	50		35 - 137	02/01/16 16:46	02/03/16 14:30	1
Terphenyl-d14	103		36 - 134	02/01/16 16:46	02/03/16 14:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/31/16 10:33	02/02/16 19:55	1
Arsenic	6.3		0.59	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Barium	43		0.59	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Beryllium	0.64		0.24	0.051	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Boron	14		3.0	0.41	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Cadmium	0.057	J	0.12	0.034	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Calcium	66000	B	120	38	mg/Kg	☼	01/31/16 10:33	02/02/16 20:08	10
Chromium	17	B	0.59	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Cobalt	13		0.30	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Copper	23		0.59	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Iron	18000	B	12	4.6	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Lead	13		0.30	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Magnesium	29000	B	5.9	2.4	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Manganese	380		0.59	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Nickel	34		0.59	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Potassium	2800		30	4.8	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Selenium	0.34	J	0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Sodium	240	B	59	7.8	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Vanadium	20		0.30	0.087	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1
Zinc	50		1.2	0.38	mg/Kg	☼	01/31/16 10:33	02/01/16 21:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:27	1
Boron	0.44	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:27	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:27	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 20:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 20:27	1
Manganese	1.9		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:27	1
Nickel	0.043		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 20:27	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:27	1
Zinc	0.13	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 20:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.025		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 20:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 18:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 18:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			02/03/16 15:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Chlorobenzene	<0.0038		0.0038	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,1-Dichloroethene	<0.0038	*	0.0038	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Tetrachloroethene	<0.0038		0.0038	0.00080	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Vinyl acetate	<0.0038	*	0.0038	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	01/29/16 17:54	02/02/16 16:54	1
Dibromofluoromethane	109		75 - 120	01/29/16 17:54	02/02/16 16:54	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	01/29/16 17:54	02/02/16 16:54	1
Toluene-d8 (Surr)	115		75 - 122	01/29/16 17:54	02/02/16 16:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Naphthalene	0.0069	J	0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2-Methylnaphthalene	0.014	J	0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 11:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110				02/01/16 16:46	02/03/16 11:20	1
Phenol-d5	35		31 - 110				02/01/16 16:46	02/03/16 11:20	1
Nitrobenzene-d5	36		25 - 115				02/01/16 16:46	02/03/16 11:20	1
2-Fluorobiphenyl	31		25 - 119				02/01/16 16:46	02/03/16 11:20	1
2,4,6-Tribromophenol	23	X	35 - 137				02/01/16 16:46	02/03/16 11:20	1
Terphenyl-d14	54		36 - 134				02/01/16 16:46	02/03/16 11:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/31/16 10:33	02/02/16 20:12	1
Arsenic	5.6		0.55	0.26	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Barium	42		0.55	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Beryllium	0.60		0.22	0.048	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Boron	10		2.8	0.39	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Cadmium	0.050	J	0.11	0.032	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Calcium	79000	B	110	36	mg/Kg	☼	01/31/16 10:33	02/02/16 20:17	10
Chromium	17	B	0.55	0.095	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Cobalt	12		0.28	0.063	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Copper	21		0.55	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Iron	17000	B	11	4.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Lead	12		0.28	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Magnesium	36000	B	5.5	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Manganese	340		0.55	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Nickel	32		0.55	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Potassium	2400		28	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Sodium	1500	B	55	7.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Vanadium	18		0.28	0.081	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1
Zinc	48		1.1	0.35	mg/Kg	☼	01/31/16 10:33	02/01/16 21:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:32	1
Boron	0.46	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Cobalt	0.018	J	0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Iron	0.20	J*	0.40	0.20	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Manganese	2.3		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Nickel	0.041		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Silver	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:32	1
Zinc	0.43	J B	0.50	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.98		0.025	0.010	mg/L	-	02/02/16 14:47	02/03/16 20:36	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/02/16 14:50	02/04/16 18:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/02/16 14:50	02/04/16 18:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/02/16 12:00	02/03/16 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.0099	mg/Kg	☼	02/03/16 09:20	02/03/16 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		0.200	0.200	SU	-		02/03/16 15:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Date Collected: 01/29/16 14:45

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 79.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,1-Dichloroethene	<0.0042	*	0.0042	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Vinyl acetate	<0.0042	*	0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	01/29/16 17:54	02/02/16 17:19	1
Dibromofluoromethane	106		75 - 120	01/29/16 17:54	02/02/16 17:19	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/29/16 17:54	02/02/16 17:19	1
Toluene-d8 (Surr)	111		75 - 122	01/29/16 17:54	02/02/16 17:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Date Collected: 01/29/16 14:45

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Phenanthrene	0.037	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Fluoranthene	0.044		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Pyrene	0.045		0.039	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Benzo[a]anthracene	0.025	J	0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Date Collected: 01/29/16 14:45

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.038	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Benzo[b]fluoranthene	0.046		0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Benzo[k]fluoranthene	0.018	J	0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Benzo[a]pyrene	0.030	J	0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
Benzo[g,h,i]perylene	0.017	J	0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		25 - 110	02/01/16 16:46	02/03/16 14:54	1
Phenol-d5	56		31 - 110	02/01/16 16:46	02/03/16 14:54	1
Nitrobenzene-d5	62		25 - 115	02/01/16 16:46	02/03/16 14:54	1
2-Fluorobiphenyl	54		25 - 119	02/01/16 16:46	02/03/16 14:54	1
2,4,6-Tribromophenol	52		35 - 137	02/01/16 16:46	02/03/16 14:54	1
Terphenyl-d14	105		36 - 134	02/01/16 16:46	02/03/16 14:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/31/16 10:33	02/02/16 20:21	1
Arsenic	9.6		0.58	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Barium	100		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Beryllium	0.56		0.23	0.050	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Boron	9.7		2.9	0.40	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Cadmium	1.7		0.12	0.033	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Calcium	63000	B	120	37	mg/Kg	☼	01/31/16 10:33	02/02/16 20:26	10
Chromium	26	B	0.58	0.099	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Cobalt	6.7		0.29	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Copper	83		0.58	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Iron	27000	B	12	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Lead	3300		0.29	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Magnesium	28000	B	5.8	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Manganese	270		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Nickel	34		0.58	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Potassium	1200		29	4.7	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Selenium	0.37	J	0.58	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Silver	0.19	J	0.29	0.068	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Sodium	600	B	58	7.6	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Vanadium	15		0.29	0.084	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1
Zinc	400		1.2	0.37	mg/Kg	☼	01/31/16 10:33	02/01/16 21:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:44	1
Boron	0.40	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Date Collected: 01/29/16 14:45

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 79.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0027	J	0.0050	0.0020	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Cobalt	0.012	J	0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Iron	0.24	J*	0.40	0.20	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Lead	0.070		0.0075	0.0075	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Manganese	1.6		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Nickel	0.045		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Silver	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:44	1
Zinc	0.048	J B	0.50	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:44	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.010		0.0075	0.0075	mg/L	-	02/02/16 14:47	02/03/16 20:43	1
Manganese	0.073		0.025	0.010	mg/L	-	02/02/16 14:47	02/03/16 20:43	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/02/16 14:50	02/04/16 19:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/02/16 14:50	02/04/16 19:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/02/16 12:00	02/03/16 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.021	0.011	mg/Kg	☼	02/03/16 09:20	02/03/16 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU	-		02/03/16 15:40	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,1-Dichloroethene	<0.0041	*	0.0041	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	01/29/16 17:54	02/02/16 17:44	1
Dibromofluoromethane	106		75 - 120	01/29/16 17:54	02/02/16 17:44	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/29/16 17:54	02/02/16 17:44	1
Toluene-d8 (Surr)	114		75 - 122	01/29/16 17:54	02/02/16 17:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Naphthalene	0.026	J	0.040	0.0062	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Phenanthrene	0.063		0.040	0.0056	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Fluoranthene	0.062		0.040	0.0075	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Pyrene	0.063		0.040	0.0080	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Benzo[a]anthracene	0.027	J	0.040	0.0054	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.040	0.011	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Benzo[b]fluoranthene	0.065		0.040	0.0087	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Benzo[k]fluoranthene	0.023 J		0.040	0.012	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Benzo[a]pyrene	0.037 J		0.040	0.0078	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Indeno[1,2,3-cd]pyrene	0.019 J		0.040	0.010	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
Benzo[g,h,i]perylene	0.027 J		0.040	0.013	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/10/16 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	02/01/16 16:46	02/10/16 15:42	1
Phenol-d5	74		31 - 110	02/01/16 16:46	02/10/16 15:42	1
Nitrobenzene-d5	62		25 - 115	02/01/16 16:46	02/10/16 15:42	1
2-Fluorobiphenyl	64		25 - 119	02/01/16 16:46	02/10/16 15:42	1
2,4,6-Tribromophenol	43		35 - 137	02/01/16 16:46	02/10/16 15:42	1
Terphenyl-d14	95		36 - 134	02/01/16 16:46	02/10/16 15:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	01/31/16 10:33	02/02/16 20:30	1
Arsenic	5.7		0.60	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Barium	35		0.60	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Beryllium	0.65		0.24	0.052	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Boron	11		3.0	0.42	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Cadmium	0.074 J		0.12	0.035	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Calcium	77000 B		120	38	mg/Kg	☼	01/31/16 10:33	02/02/16 20:35	10
Chromium	19 B		0.60	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Cobalt	13		0.30	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Copper	24		0.60	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Iron	18000 B		12	4.6	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Lead	51		0.30	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Magnesium	27000 B		6.0	2.4	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Manganese	370		0.60	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Nickel	35		0.60	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Potassium	2600		30	4.9	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Sodium	580 B		60	7.9	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Vanadium	19		0.30	0.087	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1
Zinc	56		1.2	0.38	mg/Kg	☼	01/31/16 10:33	02/01/16 21:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:49	1
Boron	0.39 J		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0096		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:49	1
Cobalt	0.028		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:49	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 20:49	1
Lead	0.18		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 20:49	1
Manganese	3.3		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:49	1
Nickel	0.046		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 20:49	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:49	1
Zinc	0.15	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 20:49	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:47	02/03/16 20:50	1
Lead	0.031		0.0075	0.0075	mg/L		02/02/16 14:47	02/03/16 20:50	1
Manganese	0.073		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 20:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 19:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 19:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.011	mg/Kg	☼	02/03/16 09:20	02/03/16 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			02/03/16 15:43	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,1-Dichloroethane	<0.0042		0.0042	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,1-Dichloroethene	<0.0042	*	0.0042	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Vinyl acetate	<0.0042	*	0.0042	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	01/29/16 17:54	02/02/16 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/29/16 17:54	02/02/16 18:09	1
Dibromofluoromethane	103		75 - 120	01/29/16 17:54	02/02/16 18:09	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	01/29/16 17:54	02/02/16 18:09	1
Toluene-d8 (Surr)	109		75 - 122	01/29/16 17:54	02/02/16 18:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Naphthalene	0.018	J	0.038	0.0059	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2-Methylnaphthalene	0.020	J	0.038	0.0071	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Phenanthrene	0.056		0.038	0.0054	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Fluoranthene	0.012	J	0.038	0.0072	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Pyrene	0.023	J	0.038	0.0077	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Benzo[a]anthracene	0.0055	J	0.038	0.0052	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.038	0.011	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/01/16 16:46	02/05/16 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		25 - 110				02/01/16 16:46	02/05/16 04:10	1
Phenol-d5	94		31 - 110				02/01/16 16:46	02/05/16 04:10	1
Nitrobenzene-d5	100		25 - 115				02/01/16 16:46	02/05/16 04:10	1
2-Fluorobiphenyl	70		25 - 119				02/01/16 16:46	02/05/16 04:10	1
2,4,6-Tribromophenol	69		35 - 137				02/01/16 16:46	02/05/16 04:10	1
Terphenyl-d14	116		36 - 134				02/01/16 16:46	02/05/16 04:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/31/16 10:33	02/02/16 20:39	1
Arsenic	5.8		0.55	0.25	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Barium	44		0.55	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Beryllium	0.65		0.22	0.047	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Boron	11		2.7	0.38	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Cadmium	0.056	J	0.11	0.032	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Calcium	62000	B	110	35	mg/Kg	☼	01/31/16 10:33	02/02/16 20:44	10
Chromium	18	B	0.55	0.094	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Cobalt	13		0.27	0.062	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Copper	24		0.55	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Iron	18000	B	11	4.2	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Lead	14		0.27	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Magnesium	26000	B	5.5	2.2	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Manganese	330		0.55	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Nickel	34		0.55	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Potassium	2600		27	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Selenium	0.27	J	0.55	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Sodium	1100	B	55	7.2	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Vanadium	20		0.27	0.080	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1
Zinc	55		1.1	0.35	mg/Kg	☼	01/31/16 10:33	02/01/16 22:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:54	1
Boron	0.39	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Cobalt	0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Iron	<0.40	*	0.40	0.20	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Manganese	1.9		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Nickel	0.040		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Silver	<0.025		0.025	0.010	mg/L	-	02/02/16 14:50	02/03/16 20:54	1
Zinc	0.45	J B	0.50	0.020	mg/L	-	02/02/16 14:50	02/03/16 20:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L	-	02/02/16 14:47	02/03/16 20:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/02/16 14:50	02/04/16 19:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/02/16 14:50	02/04/16 19:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/02/16 12:00	02/03/16 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0096	mg/Kg	☼	02/03/16 09:20	02/03/16 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU	-		02/03/16 15:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Dibromochloromethane	<0.0040		0.0040	0.00045	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,1-Dichloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,1-Dichloroethene	<0.0040	*	0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/29/16 17:54	02/02/16 18:34	1
Dibromofluoromethane	107		75 - 120	01/29/16 17:54	02/02/16 18:34	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	01/29/16 17:54	02/02/16 18:34	1
Toluene-d8 (Surr)	112		75 - 122	01/29/16 17:54	02/02/16 18:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Naphthalene	0.025	J	0.039	0.0061	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2-Methylnaphthalene	0.060		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Phenanthrene	0.037	J	0.039	0.0055	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Pyrene	0.0099	J	0.039	0.0079	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.039	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/01/16 16:46	02/03/16 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110	02/01/16 16:46	02/03/16 12:55	1
Phenol-d5	69		31 - 110	02/01/16 16:46	02/03/16 12:55	1
Nitrobenzene-d5	82		25 - 115	02/01/16 16:46	02/03/16 12:55	1
2-Fluorobiphenyl	69		25 - 119	02/01/16 16:46	02/03/16 12:55	1
2,4,6-Tribromophenol	52		35 - 137	02/01/16 16:46	02/03/16 12:55	1
Terphenyl-d14	100		36 - 134	02/01/16 16:46	02/03/16 12:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	01/31/16 10:33	02/02/16 20:48	1
Arsenic	6.1		0.58	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Barium	65		0.58	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Beryllium	0.64		0.23	0.051	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Boron	11		2.9	0.41	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Calcium	63000	B	120	38	mg/Kg	☼	01/31/16 10:33	02/02/16 21:01	10
Chromium	17	B	0.58	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Cobalt	13		0.29	0.066	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Copper	24		0.58	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Iron	18000	B	12	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Lead	14		0.29	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Magnesium	27000	B	5.8	2.4	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Manganese	370		0.58	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Nickel	35		0.58	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Potassium	2500		29	4.8	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Sodium	530	B	58	7.7	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Vanadium	18		0.29	0.085	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1
Zinc	52		1.2	0.37	mg/Kg	☼	01/31/16 10:33	02/01/16 22:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.72		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 21:08	1
Boron	0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 21:08	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:08	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:08	1
Iron	0.21	J*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 21:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 21:08	1
Manganese	2.0		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:08	1
Nickel	0.043		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:08	1
Selenium	0.024	J	0.050	0.020	mg/L		02/02/16 14:50	02/03/16 21:08	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:08	1
Zinc	0.21	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 21:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.040		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 21:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 19:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 19:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0093	mg/Kg	☼	02/03/16 09:20	02/03/16 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			02/03/16 15:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,1-Dichloroethene	<0.0040	*	0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	01/29/16 17:54	02/02/16 18:59	1
Dibromofluoromethane	108		75 - 120	01/29/16 17:54	02/02/16 18:59	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	01/29/16 17:54	02/02/16 18:59	1
Toluene-d8 (Surr)	110		75 - 122	01/29/16 17:54	02/02/16 18:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Naphthalene	0.021	J	0.038	0.0059	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2-Methylnaphthalene	0.026	J	0.038	0.0070	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Phenanthrene	0.049		0.038	0.0053	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Pyrene	0.013	J	0.038	0.0076	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.038	0.010	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/01/16 16:46	02/05/16 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	02/01/16 16:46	02/05/16 04:39	1
Phenol-d5	74		31 - 110	02/01/16 16:46	02/05/16 04:39	1
Nitrobenzene-d5	68		25 - 115	02/01/16 16:46	02/05/16 04:39	1
2-Fluorobiphenyl	64		25 - 119	02/01/16 16:46	02/05/16 04:39	1
2,4,6-Tribromophenol	67		35 - 137	02/01/16 16:46	02/05/16 04:39	1
Terphenyl-d14	110		36 - 134	02/01/16 16:46	02/05/16 04:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/31/16 10:33	02/02/16 21:05	1
Arsenic	6.1		0.57	0.26	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Barium	47		0.57	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Beryllium	0.70		0.23	0.050	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Boron	14		2.9	0.40	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Cadmium	0.054	J	0.11	0.033	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Calcium	64000	B	110	37	mg/Kg	☼	01/31/16 10:33	02/02/16 21:10	10
Chromium	17	B	0.57	0.098	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Cobalt	13		0.29	0.065	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Copper	23		0.57	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Iron	19000	B	11	4.4	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Lead	13		0.29	0.14	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Magnesium	28000	B	5.7	2.3	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Manganese	370		0.57	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Nickel	35		0.57	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Potassium	3000		29	4.7	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Sodium	580	B	57	7.6	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Vanadium	20		0.29	0.084	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1
Zinc	60		1.1	0.36	mg/Kg	☼	01/31/16 10:33	02/01/16 22:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 21:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 21:13	1
Boron	0.36	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 21:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 21:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:13	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:13	1
Iron	0.22	J*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 21:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 21:13	1
Manganese	2.0		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:13	1
Nickel	0.047		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:13	1
Selenium	0.021	J	0.050	0.020	mg/L		02/02/16 14:50	02/03/16 21:13	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:13	1
Zinc	0.10	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 21:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.042		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 21:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 19:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 19:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0097	mg/Kg	☼	02/03/16 09:20	02/03/16 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			02/03/16 15:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,1-Dichloroethene	<0.0040	*	0.0040	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	01/29/16 17:54	02/02/16 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	01/29/16 17:54	02/02/16 19:24	1
Dibromofluoromethane	108		75 - 120	01/29/16 17:54	02/02/16 19:24	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	01/29/16 17:54	02/02/16 19:24	1
Toluene-d8 (Surr)	112		75 - 122	01/29/16 17:54	02/02/16 19:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Naphthalene	0.027	J	0.040	0.0062	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2-Methylnaphthalene	0.081		0.040	0.0074	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Phenanthrene	0.041		0.040	0.0056	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.040	0.011	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/01/16 16:46	02/03/16 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110				02/01/16 16:46	02/03/16 16:29	1
Phenol-d5	65		31 - 110				02/01/16 16:46	02/03/16 16:29	1
Nitrobenzene-d5	69		25 - 115				02/01/16 16:46	02/03/16 16:29	1
2-Fluorobiphenyl	68		25 - 119				02/01/16 16:46	02/03/16 16:29	1
2,4,6-Tribromophenol	79		35 - 137				02/01/16 16:46	02/03/16 16:29	1
Terphenyl-d14	113		36 - 134				02/01/16 16:46	02/03/16 16:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.24	mg/Kg	☼	01/31/16 10:33	02/02/16 21:14	1
Arsenic	5.9		0.59	0.27	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Barium	45		0.59	0.11	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Beryllium	0.70		0.23	0.051	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Boron	13	F1	2.9	0.41	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Cadmium	0.053	J	0.12	0.034	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Calcium	65000	B	120	38	mg/Kg	☼	01/31/16 10:33	02/02/16 21:39	10
Chromium	18	B	0.59	0.10	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Cobalt	13		0.29	0.066	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Copper	24		0.59	0.13	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Iron	19000	B	12	4.5	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Lead	13		0.29	0.15	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Magnesium	27000	B	5.9	2.4	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Manganese	370		0.59	0.12	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Nickel	36		0.59	0.16	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Potassium	2900		29	4.8	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Sodium	400	B	59	7.7	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Vanadium	20		0.29	0.086	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1
Zinc	52		1.2	0.37	mg/Kg	☼	01/31/16 10:33	02/01/16 22:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 21:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 21:18	1
Boron	0.40	J	0.50	0.050	mg/L		02/02/16 14:50	02/03/16 21:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 21:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:18	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:18	1
Iron	<0.40	*	0.40	0.20	mg/L		02/02/16 14:50	02/03/16 21:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 21:18	1
Manganese	2.0		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:18	1
Nickel	0.044		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 21:18	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 21:18	1
Zinc	0.20	J B	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 21:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 21:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 19:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 19:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0094	mg/Kg	☼	02/03/16 09:20	02/03/16 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.92		0.200	0.200	SU			02/03/16 15:54	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

GC/MS VOA

Prep Batch: 321375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	5035	
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	5035	
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	5035	
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	5035	
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	5035	
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	5035	
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	5035	
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	5035	
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	5035	
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	5035	
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	5035	
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	5035	
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	5035	
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	5035	
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	5035	
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	5035	

Analysis Batch: 321546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	8260B	321375
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	8260B	321375
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	8260B	321375
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	8260B	321375
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	8260B	321375
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	8260B	321375
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	8260B	321375
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	8260B	321375
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	8260B	321375
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	8260B	321375
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	8260B	321375
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	8260B	321375
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	8260B	321375
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	8260B	321375
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	8260B	321375
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	8260B	321375
LCS 500-321546/27	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-321546/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-321546/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 321513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	3541	
500-106984-1 MS	2746-01-B92 (0-5)	Total/NA	Solid	3541	
500-106984-1 MSD	2746-01-B92 (0-5)	Total/NA	Solid	3541	
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	3541	
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	3541	
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	3541	
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

GC/MS Semi VOA (Continued)

Prep Batch: 321513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	3541	
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	3541	
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	3541	
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	3541	
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	3541	
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	3541	
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	3541	
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	3541	
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	3541	
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	3541	
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	3541	
LCS 500-321513/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-321513/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 321559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-321513/2-A	Lab Control Sample	Total/NA	Solid	8270D	321513
MB 500-321513/1-A	Method Blank	Total/NA	Solid	8270D	321513

Analysis Batch: 321697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	8270D	321513
500-106984-1 MS	2746-01-B92 (0-5)	Total/NA	Solid	8270D	321513
500-106984-1 MSD	2746-01-B92 (0-5)	Total/NA	Solid	8270D	321513
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	8270D	321513
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	8270D	321513
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	8270D	321513
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	8270D	321513
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	8270D	321513
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	8270D	321513
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	8270D	321513
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	8270D	321513
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	8270D	321513
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	8270D	321513
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	8270D	321513

Analysis Batch: 321965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	8270D	321513
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	8270D	321513

Analysis Batch: 322321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	8270D	321513
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	8270D	321513

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Metals

Prep Batch: 321396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	3050B	
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	3050B	
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	3050B	
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	3050B	
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	3050B	
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	3050B	
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	3050B	
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	3050B	
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	3050B	
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	3050B	
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	3050B	
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	3050B	
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	3050B	
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	3050B	
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	3050B	
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	3050B	
500-106984-16 DU	2746-01-B54 (14-20)	Total/NA	Solid	3050B	
500-106984-16 MS	2746-01-B54 (14-20)	Total/NA	Solid	3050B	
500-106984-16 MSD	2746-01-B54 (14-20)	Total/NA	Solid	3050B	
LCS 500-321396/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-321396/1-A	Method Blank	Total/NA	Solid	3050B	

Leach Batch: 321479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-2	2746-01-B92 (5-10)	TCLP	Solid	1311	
500-106984-2 DU	2746-01-B92 (5-10)	TCLP	Solid	1311	
500-106984-2 MS	2746-01-B92 (5-10)	TCLP	Solid	1311	
500-106984-3	2746-01-B93 (0-5)	TCLP	Solid	1311	
500-106984-4	2746-01-B93 (5-10)	TCLP	Solid	1311	
500-106984-5	2746-01-B94 (0-8)	TCLP	Solid	1311	
500-106984-6	2746-01-B111 (0-8)	TCLP	Solid	1311	
500-106984-7	2746-01-B112 (0-8)	TCLP	Solid	1311	
500-106984-8	2746-01-B110 (0-8)	TCLP	Solid	1311	
500-106984-9	2746-01-B109 (0-8)	TCLP	Solid	1311	
500-106984-10	2746-01-B57 (0-6)	TCLP	Solid	1311	
500-106984-11	2746-01-B56 (0-8)	TCLP	Solid	1311	
500-106984-12	2746-01-B55 (0-8)	TCLP	Solid	1311	
500-106984-13	2746-01-B54 (0-7)	TCLP	Solid	1311	
500-106984-14	2746-01-B54 (7-14)	TCLP	Solid	1311	
500-106984-15	2746-01-B54 (7-14)D	TCLP	Solid	1311	
500-106984-16	2746-01-B54 (14-20)	TCLP	Solid	1311	
LB 500-321479/1-B	Method Blank	TCLP	Solid	1311	
LB 500-321479/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 321480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	TCLP	Solid	1311	
500-106984-1 DU	2746-01-B92 (0-5)	TCLP	Solid	1311	
500-106984-1 MS	2746-01-B92 (0-5)	TCLP	Solid	1311	
LB2 500-321480/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-321480/1-C	Method Blank	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Leach Batch: 321483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	SPLP East	Solid	1312	
500-106984-2	2746-01-B92 (5-10)	SPLP East	Solid	1312	
500-106984-3	2746-01-B93 (0-5)	SPLP East	Solid	1312	
500-106984-3 DU	2746-01-B93 (0-5)	SPLP East	Solid	1312	
500-106984-3 MS	2746-01-B93 (0-5)	SPLP East	Solid	1312	
500-106984-4	2746-01-B93 (5-10)	SPLP East	Solid	1312	
500-106984-5	2746-01-B94 (0-8)	SPLP East	Solid	1312	
500-106984-6	2746-01-B111 (0-8)	SPLP East	Solid	1312	
500-106984-7	2746-01-B112 (0-8)	SPLP East	Solid	1312	
500-106984-8	2746-01-B110 (0-8)	SPLP East	Solid	1312	
500-106984-9	2746-01-B109 (0-8)	SPLP East	Solid	1312	
500-106984-10	2746-01-B57 (0-6)	SPLP East	Solid	1312	
500-106984-11	2746-01-B56 (0-8)	SPLP East	Solid	1312	
500-106984-12	2746-01-B55 (0-8)	SPLP East	Solid	1312	
500-106984-13	2746-01-B54 (0-7)	SPLP East	Solid	1312	
500-106984-14	2746-01-B54 (7-14)	SPLP East	Solid	1312	
500-106984-15	2746-01-B54 (7-14)D	SPLP East	Solid	1312	
500-106984-16	2746-01-B54 (14-20)	SPLP East	Solid	1312	
LB 500-321483/1-B	Method Blank	SPLP East	Solid	1312	

Analysis Batch: 321554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	6010B	321396
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	6010B	321396
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	6010B	321396
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	6010B	321396
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	6010B	321396
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	6010B	321396
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	6010B	321396
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	6010B	321396
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	6010B	321396
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	6010B	321396
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	6010B	321396
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	6010B	321396
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	6010B	321396
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	6010B	321396
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	6010B	321396
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 DU	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 MS	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 MSD	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
LCS 500-321396/2-A	Lab Control Sample	Total/NA	Solid	6010B	321396
MB 500-321396/1-A	Method Blank	Total/NA	Solid	6010B	321396

Prep Batch: 321590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	TCLP	Solid	7470A	321480
500-106984-1 DU	2746-01-B92 (0-5)	TCLP	Solid	7470A	321480
500-106984-1 MS	2746-01-B92 (0-5)	TCLP	Solid	7470A	321480
500-106984-2	2746-01-B92 (5-10)	TCLP	Solid	7470A	321479
500-106984-3	2746-01-B93 (0-5)	TCLP	Solid	7470A	321479
500-106984-4	2746-01-B93 (5-10)	TCLP	Solid	7470A	321479
500-106984-5	2746-01-B94 (0-8)	TCLP	Solid	7470A	321479

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Metals (Continued)

Prep Batch: 321590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-6	2746-01-B111 (0-8)	TCLP	Solid	7470A	321479
500-106984-7	2746-01-B112 (0-8)	TCLP	Solid	7470A	321479
500-106984-8	2746-01-B110 (0-8)	TCLP	Solid	7470A	321479
500-106984-9	2746-01-B109 (0-8)	TCLP	Solid	7470A	321479
500-106984-10	2746-01-B57 (0-6)	TCLP	Solid	7470A	321479
500-106984-11	2746-01-B56 (0-8)	TCLP	Solid	7470A	321479
500-106984-12	2746-01-B55 (0-8)	TCLP	Solid	7470A	321479
500-106984-13	2746-01-B54 (0-7)	TCLP	Solid	7470A	321479
500-106984-14	2746-01-B54 (7-14)	TCLP	Solid	7470A	321479
500-106984-15	2746-01-B54 (7-14)D	TCLP	Solid	7470A	321479
500-106984-16	2746-01-B54 (14-20)	TCLP	Solid	7470A	321479
LB 500-321479/1-B	Method Blank	TCLP	Solid	7470A	321479
LB2 500-321480/1-B	Method Blank	TCLP	Solid	7470A	321480
LCS 500-321590/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-321590/12-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 321608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	7471B	
500-106984-1 DU	2746-01-B92 (0-5)	Total/NA	Solid	7471B	
500-106984-1 MS	2746-01-B92 (0-5)	Total/NA	Solid	7471B	
500-106984-1 MSD	2746-01-B92 (0-5)	Total/NA	Solid	7471B	
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	7471B	
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	7471B	
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	7471B	
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	7471B	
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	7471B	
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	7471B	
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	7471B	
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	7471B	
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	7471B	
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	7471B	
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	7471B	
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	7471B	
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	7471B	
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	7471B	
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	7471B	
LCS 500-321608/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-321608/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 321609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	SPLP East	Solid	3010A	321483
500-106984-2	2746-01-B92 (5-10)	SPLP East	Solid	3010A	321483
500-106984-3	2746-01-B93 (0-5)	SPLP East	Solid	3010A	321483
500-106984-3 DU	2746-01-B93 (0-5)	SPLP East	Solid	3010A	321483
500-106984-3 MS	2746-01-B93 (0-5)	SPLP East	Solid	3010A	321483
500-106984-4	2746-01-B93 (5-10)	SPLP East	Solid	3010A	321483
500-106984-5	2746-01-B94 (0-8)	SPLP East	Solid	3010A	321483
500-106984-6	2746-01-B111 (0-8)	SPLP East	Solid	3010A	321483
500-106984-7	2746-01-B112 (0-8)	SPLP East	Solid	3010A	321483

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Metals (Continued)

Prep Batch: 321609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-8	2746-01-B110 (0-8)	SPLP East	Solid	3010A	321483
500-106984-9	2746-01-B109 (0-8)	SPLP East	Solid	3010A	321483
500-106984-10	2746-01-B57 (0-6)	SPLP East	Solid	3010A	321483
500-106984-11	2746-01-B56 (0-8)	SPLP East	Solid	3010A	321483
500-106984-12	2746-01-B55 (0-8)	SPLP East	Solid	3010A	321483
500-106984-13	2746-01-B54 (0-7)	SPLP East	Solid	3010A	321483
500-106984-14	2746-01-B54 (7-14)	SPLP East	Solid	3010A	321483
500-106984-15	2746-01-B54 (7-14)D	SPLP East	Solid	3010A	321483
500-106984-16	2746-01-B54 (14-20)	SPLP East	Solid	3010A	321483
LB 500-321483/1-B	Method Blank	SPLP East	Solid	3010A	321483
LCS 500-321609/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 321610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	TCLP	Solid	3010A	321480
500-106984-2	2746-01-B92 (5-10)	TCLP	Solid	3010A	321479
500-106984-2 DU	2746-01-B92 (5-10)	TCLP	Solid	3010A	321479
500-106984-2 MS	2746-01-B92 (5-10)	TCLP	Solid	3010A	321479
500-106984-3	2746-01-B93 (0-5)	TCLP	Solid	3010A	321479
500-106984-4	2746-01-B93 (5-10)	TCLP	Solid	3010A	321479
500-106984-5	2746-01-B94 (0-8)	TCLP	Solid	3010A	321479
500-106984-6	2746-01-B111 (0-8)	TCLP	Solid	3010A	321479
500-106984-7	2746-01-B112 (0-8)	TCLP	Solid	3010A	321479
500-106984-8	2746-01-B110 (0-8)	TCLP	Solid	3010A	321479
500-106984-9	2746-01-B109 (0-8)	TCLP	Solid	3010A	321479
500-106984-10	2746-01-B57 (0-6)	TCLP	Solid	3010A	321479
500-106984-11	2746-01-B56 (0-8)	TCLP	Solid	3010A	321479
500-106984-12	2746-01-B55 (0-8)	TCLP	Solid	3010A	321479
500-106984-13	2746-01-B54 (0-7)	TCLP	Solid	3010A	321479
500-106984-14	2746-01-B54 (7-14)	TCLP	Solid	3010A	321479
500-106984-15	2746-01-B54 (7-14)D	TCLP	Solid	3010A	321479
500-106984-16	2746-01-B54 (14-20)	TCLP	Solid	3010A	321479
LB 500-321479/1-C	Method Blank	TCLP	Solid	3010A	321479
LB2 500-321480/1-C	Method Blank	TCLP	Solid	3010A	321480
LCS 500-321610/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 321696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	6010B	321396
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	6010B	321396
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	6010B	321396
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	6010B	321396
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	6010B	321396
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	6010B	321396
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	6010B	321396
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	6010B	321396
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	6010B	321396
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	6010B	321396
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	6010B	321396
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	6010B	321396
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	6010B	321396

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Metals (Continued)

Analysis Batch: 321696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	6010B	321396
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	6010B	321396
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	6010B	321396
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	6010B	321396
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	6010B	321396
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	6010B	321396
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	6010B	321396
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	6010B	321396
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	6010B	321396
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	6010B	321396
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 DU	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 DU	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 MS	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 MS	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 MSD	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396
500-106984-16 MSD	2746-01-B54 (14-20)	Total/NA	Solid	6010B	321396

Analysis Batch: 321733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	TCLP	Solid	7470A	321590
500-106984-1 DU	2746-01-B92 (0-5)	TCLP	Solid	7470A	321590
500-106984-1 MS	2746-01-B92 (0-5)	TCLP	Solid	7470A	321590
500-106984-2	2746-01-B92 (5-10)	TCLP	Solid	7470A	321590
500-106984-3	2746-01-B93 (0-5)	TCLP	Solid	7470A	321590
500-106984-4	2746-01-B93 (5-10)	TCLP	Solid	7470A	321590
500-106984-5	2746-01-B94 (0-8)	TCLP	Solid	7470A	321590
500-106984-6	2746-01-B111 (0-8)	TCLP	Solid	7470A	321590
500-106984-7	2746-01-B112 (0-8)	TCLP	Solid	7470A	321590
500-106984-8	2746-01-B110 (0-8)	TCLP	Solid	7470A	321590
500-106984-9	2746-01-B109 (0-8)	TCLP	Solid	7470A	321590
500-106984-10	2746-01-B57 (0-6)	TCLP	Solid	7470A	321590
500-106984-11	2746-01-B56 (0-8)	TCLP	Solid	7470A	321590
500-106984-12	2746-01-B55 (0-8)	TCLP	Solid	7470A	321590
500-106984-13	2746-01-B54 (0-7)	TCLP	Solid	7470A	321590
500-106984-14	2746-01-B54 (7-14)	TCLP	Solid	7470A	321590
500-106984-15	2746-01-B54 (7-14)D	TCLP	Solid	7470A	321590
500-106984-16	2746-01-B54 (14-20)	TCLP	Solid	7470A	321590
LB 500-321479/1-B	Method Blank	TCLP	Solid	7470A	321590
LB2 500-321480/1-B	Method Blank	TCLP	Solid	7470A	321590
LCS 500-321590/13-A	Lab Control Sample	Total/NA	Solid	7470A	321590
MB 500-321590/12-A	Method Blank	Total/NA	Solid	7470A	321590

Analysis Batch: 321813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	7471B	321608
500-106984-1 DU	2746-01-B92 (0-5)	Total/NA	Solid	7471B	321608
500-106984-1 MS	2746-01-B92 (0-5)	Total/NA	Solid	7471B	321608
500-106984-1 MSD	2746-01-B92 (0-5)	Total/NA	Solid	7471B	321608
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	7471B	321608

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Metals (Continued)

Analysis Batch: 321813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	7471B	321608
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	7471B	321608
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	7471B	321608
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	7471B	321608
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	7471B	321608
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	7471B	321608
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	7471B	321608
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	7471B	321608
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	7471B	321608
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	7471B	321608
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	7471B	321608
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	7471B	321608
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	7471B	321608
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	7471B	321608
LCS 500-321608/13-A	Lab Control Sample	Total/NA	Solid	7471B	321608
MB 500-321608/12-A	Method Blank	Total/NA	Solid	7471B	321608

Analysis Batch: 321857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	SPLP East	Solid	6010B	321609
500-106984-2	2746-01-B92 (5-10)	SPLP East	Solid	6010B	321609
500-106984-3	2746-01-B93 (0-5)	SPLP East	Solid	6010B	321609
500-106984-3 DU	2746-01-B93 (0-5)	SPLP East	Solid	6010B	321609
500-106984-3 MS	2746-01-B93 (0-5)	SPLP East	Solid	6010B	321609
500-106984-4	2746-01-B93 (5-10)	SPLP East	Solid	6010B	321609
500-106984-5	2746-01-B94 (0-8)	SPLP East	Solid	6010B	321609
500-106984-6	2746-01-B111 (0-8)	SPLP East	Solid	6010B	321609
500-106984-7	2746-01-B112 (0-8)	SPLP East	Solid	6010B	321609
500-106984-8	2746-01-B110 (0-8)	SPLP East	Solid	6010B	321609
500-106984-9	2746-01-B109 (0-8)	SPLP East	Solid	6010B	321609
500-106984-10	2746-01-B57 (0-6)	SPLP East	Solid	6010B	321609
500-106984-11	2746-01-B56 (0-8)	SPLP East	Solid	6010B	321609
500-106984-12	2746-01-B55 (0-8)	SPLP East	Solid	6010B	321609
500-106984-13	2746-01-B54 (0-7)	SPLP East	Solid	6010B	321609
500-106984-14	2746-01-B54 (7-14)	SPLP East	Solid	6010B	321609
500-106984-15	2746-01-B54 (7-14)D	SPLP East	Solid	6010B	321609
500-106984-16	2746-01-B54 (14-20)	SPLP East	Solid	6010B	321609
LB 500-321483/1-B	Method Blank	SPLP East	Solid	6010B	321609
LCS 500-321609/2-A	Lab Control Sample	Total/NA	Solid	6010B	321609

Analysis Batch: 321878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	TCLP	Solid	6010B	321610
500-106984-2	2746-01-B92 (5-10)	TCLP	Solid	6010B	321610
500-106984-2 DU	2746-01-B92 (5-10)	TCLP	Solid	6010B	321610
500-106984-2 MS	2746-01-B92 (5-10)	TCLP	Solid	6010B	321610
500-106984-3	2746-01-B93 (0-5)	TCLP	Solid	6010B	321610
500-106984-4	2746-01-B93 (5-10)	TCLP	Solid	6010B	321610
500-106984-5	2746-01-B94 (0-8)	TCLP	Solid	6010B	321610
500-106984-6	2746-01-B111 (0-8)	TCLP	Solid	6010B	321610
500-106984-7	2746-01-B112 (0-8)	TCLP	Solid	6010B	321610

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Metals (Continued)

Analysis Batch: 321878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-8	2746-01-B110 (0-8)	TCLP	Solid	6010B	321610
500-106984-9	2746-01-B109 (0-8)	TCLP	Solid	6010B	321610
500-106984-10	2746-01-B57 (0-6)	TCLP	Solid	6010B	321610
500-106984-11	2746-01-B56 (0-8)	TCLP	Solid	6010B	321610
500-106984-12	2746-01-B55 (0-8)	TCLP	Solid	6010B	321610
500-106984-13	2746-01-B54 (0-7)	TCLP	Solid	6010B	321610
500-106984-14	2746-01-B54 (7-14)	TCLP	Solid	6010B	321610
500-106984-15	2746-01-B54 (7-14)D	TCLP	Solid	6010B	321610
500-106984-16	2746-01-B54 (14-20)	TCLP	Solid	6010B	321610
LB 500-321479/1-C	Method Blank	TCLP	Solid	6010B	321610
LB2 500-321480/1-C	Method Blank	TCLP	Solid	6010B	321610
LCS 500-321610/2-A	Lab Control Sample	Total/NA	Solid	6010B	321610

Analysis Batch: 322316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	TCLP	Solid	6020A	321610
500-106984-2	2746-01-B92 (5-10)	TCLP	Solid	6020A	321610
500-106984-2 DU	2746-01-B92 (5-10)	TCLP	Solid	6020A	321610
500-106984-2 MS	2746-01-B92 (5-10)	TCLP	Solid	6020A	321610
500-106984-3	2746-01-B93 (0-5)	TCLP	Solid	6020A	321610
500-106984-4	2746-01-B93 (5-10)	TCLP	Solid	6020A	321610
500-106984-5	2746-01-B94 (0-8)	TCLP	Solid	6020A	321610
500-106984-6	2746-01-B111 (0-8)	TCLP	Solid	6020A	321610
500-106984-7	2746-01-B112 (0-8)	TCLP	Solid	6020A	321610
500-106984-8	2746-01-B110 (0-8)	TCLP	Solid	6020A	321610
500-106984-9	2746-01-B109 (0-8)	TCLP	Solid	6020A	321610
500-106984-10	2746-01-B57 (0-6)	TCLP	Solid	6020A	321610
500-106984-11	2746-01-B56 (0-8)	TCLP	Solid	6020A	321610
500-106984-12	2746-01-B55 (0-8)	TCLP	Solid	6020A	321610
500-106984-13	2746-01-B54 (0-7)	TCLP	Solid	6020A	321610
500-106984-14	2746-01-B54 (7-14)	TCLP	Solid	6020A	321610
500-106984-15	2746-01-B54 (7-14)D	TCLP	Solid	6020A	321610
500-106984-16	2746-01-B54 (14-20)	TCLP	Solid	6020A	321610
LB 500-321479/1-C	Method Blank	TCLP	Solid	6020A	321610
LB2 500-321480/1-C	Method Blank	TCLP	Solid	6020A	321610
LCS 500-321610/2-A	Lab Control Sample	Total/NA	Solid	6020A	321610

General Chemistry

Analysis Batch: 321414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	Moisture	
500-106984-1 DU	2746-01-B92 (0-5)	Total/NA	Solid	Moisture	
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	Moisture	
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	Moisture	
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	Moisture	
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	Moisture	
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	Moisture	
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	Moisture	
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

General Chemistry (Continued)

Analysis Batch: 321414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	Moisture	
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	Moisture	
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	Moisture	
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	Moisture	
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	Moisture	
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	Moisture	
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	Moisture	
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	Moisture	

Analysis Batch: 321872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-106984-1	2746-01-B92 (0-5)	Total/NA	Solid	9045D	
500-106984-1 DU	2746-01-B92 (0-5)	Total/NA	Solid	9045D	
500-106984-2	2746-01-B92 (5-10)	Total/NA	Solid	9045D	
500-106984-3	2746-01-B93 (0-5)	Total/NA	Solid	9045D	
500-106984-4	2746-01-B93 (5-10)	Total/NA	Solid	9045D	
500-106984-5	2746-01-B94 (0-8)	Total/NA	Solid	9045D	
500-106984-6	2746-01-B111 (0-8)	Total/NA	Solid	9045D	
500-106984-7	2746-01-B112 (0-8)	Total/NA	Solid	9045D	
500-106984-8	2746-01-B110 (0-8)	Total/NA	Solid	9045D	
500-106984-9	2746-01-B109 (0-8)	Total/NA	Solid	9045D	
500-106984-10	2746-01-B57 (0-6)	Total/NA	Solid	9045D	
500-106984-11	2746-01-B56 (0-8)	Total/NA	Solid	9045D	
500-106984-12	2746-01-B55 (0-8)	Total/NA	Solid	9045D	
500-106984-13	2746-01-B54 (0-7)	Total/NA	Solid	9045D	
500-106984-14	2746-01-B54 (7-14)	Total/NA	Solid	9045D	
500-106984-15	2746-01-B54 (7-14)D	Total/NA	Solid	9045D	
500-106984-16	2746-01-B54 (14-20)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-106984-1	2746-01-B92 (0-5)	96	105	114	111
500-106984-2	2746-01-B92 (5-10)	100	106	112	112
500-106984-3	2746-01-B93 (0-5)	97	104	110	110
500-106984-4	2746-01-B93 (5-10)	96	102	110	113
500-106984-5	2746-01-B94 (0-8)	100	107	114	113
500-106984-6	2746-01-B111 (0-8)	100	107	112	108
500-106984-7	2746-01-B112 (0-8)	95	107	116	115
500-106984-8	2746-01-B110 (0-8)	98	107	108	116
500-106984-9	2746-01-B109 (0-8)	101	102	107	117
500-106984-10	2746-01-B57 (0-6)	99	109	111	115
500-106984-11	2746-01-B56 (0-8)	102	106	114	111
500-106984-12	2746-01-B55 (0-8)	100	106	112	114
500-106984-13	2746-01-B54 (0-7)	101	103	112	109
500-106984-14	2746-01-B54 (7-14)	98	107	114	112
500-106984-15	2746-01-B54 (7-14)D	101	108	117	110
500-106984-16	2746-01-B54 (14-20)	98	108	105	112
LCS 500-321546/27	Lab Control Sample	109	105	104	113
LCSD 500-321546/6	Lab Control Sample Dup	109	107	107	113
MB 500-321546/7	Method Blank	101	103	109	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-106984-1	2746-01-B92 (0-5)	80	73	84	71	57	102
500-106984-1 MS	2746-01-B92 (0-5)	73	69	73	67	61	117
500-106984-1 MSD	2746-01-B92 (0-5)	83	81	93	77	65	123
500-106984-2	2746-01-B92 (5-10)	72	66	75	64	59	107
500-106984-3	2746-01-B93 (0-5)	82	77	88	75	58	111
500-106984-4	2746-01-B93 (5-10)	72	67	79	67	53	108
500-106984-5	2746-01-B94 (0-8)	74	77	70	72	39	107
500-106984-6	2746-01-B111 (0-8)	76	68	80	66	61	98
500-106984-7	2746-01-B112 (0-8)	79	75	82	74	74	127
500-106984-8	2746-01-B110 (0-8)	82	75	88	74	53	108
500-106984-9	2746-01-B109 (0-8)	68	64	70	62	50	103
500-106984-10	2746-01-B57 (0-6)	34	35	36	31	23 X	54
500-106984-11	2746-01-B56 (0-8)	61	56	62	54	52	105
500-106984-12	2746-01-B55 (0-8)	70	74	62	64	43	95
500-106984-13	2746-01-B54 (0-7)	86	94	100	70	69	116
500-106984-14	2746-01-B54 (7-14)	76	69	82	69	52	100
500-106984-15	2746-01-B54 (7-14)D	71	74	68	64	67	110

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-106984-16	2746-01-B54 (14-20)	78	65	69	68	79	113
LCS 500-321513/2-A	Lab Control Sample	85	88	89	83	86	102
MB 500-321513/1-A	Method Blank	76	76	67	73	52	93

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-321546/7

Matrix: Solid

Analysis Batch: 321546

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/02/16 11:49	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/02/16 11:49	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/02/16 11:49	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/02/16 11:49	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/02/16 11:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/02/16 11:49	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/02/16 11:49	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/02/16 11:49	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/02/16 11:49	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/02/16 11:49	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/02/16 11:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/02/16 11:49	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/02/16 11:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/02/16 11:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/02/16 11:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/02/16 11:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/02/16 11:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/02/16 11:49	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/02/16 11:49	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/02/16 11:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/02/16 11:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/02/16 11:49	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/02/16 11:49	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/02/16 11:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/02/16 11:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/02/16 11:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/02/16 11:49	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/02/16 11:49	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/02/16 11:49	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/02/16 11:49	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/02/16 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		02/02/16 11:49	1
Dibromofluoromethane	103		75 - 120		02/02/16 11:49	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		02/02/16 11:49	1
Toluene-d8 (Surr)	109		75 - 122		02/02/16 11:49	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321546/27

Matrix: Solid

Analysis Batch: 321546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0581		mg/Kg		116	50 - 133
Benzene	0.0500	0.0527		mg/Kg		105	70 - 120
Bromodichloromethane	0.0500	0.0463		mg/Kg		93	69 - 120
Bromoform	0.0500	0.0425		mg/Kg		85	51 - 127
Bromomethane	0.0500	0.0358		mg/Kg		72	69 - 120
2-Butanone (MEK)	0.0500	0.0532		mg/Kg		106	50 - 148
Carbon disulfide	0.0500	0.0554		mg/Kg		111	58 - 120
Carbon tetrachloride	0.0500	0.0560		mg/Kg		112	51 - 124
Chlorobenzene	0.0500	0.0537		mg/Kg		107	70 - 120
Chloroethane	0.0500	0.0404		mg/Kg		81	49 - 125
Chloroform	0.0500	0.0518		mg/Kg		104	70 - 120
Chloromethane	0.0500	0.0571		mg/Kg		114	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0535		mg/Kg		107	70 - 120
Dibromochloromethane	0.0500	0.0460		mg/Kg		92	69 - 126
1,1-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 120
1,2-Dichloroethane	0.0500	0.0510		mg/Kg		102	70 - 128
1,1-Dichloroethene	0.0500	0.0605	*	mg/Kg		121	67 - 120
1,2-Dichloropropane	0.0500	0.0496		mg/Kg		99	70 - 120
Ethylbenzene	0.0500	0.0537		mg/Kg		107	70 - 120
2-Hexanone	0.0500	0.0541		mg/Kg		108	50 - 150
Methylene Chloride	0.0500	0.0512		mg/Kg		102	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0560		mg/Kg		112	50 - 150
Methyl tert-butyl ether	0.0500	0.0519		mg/Kg		104	70 - 120
Styrene	0.0500	0.0491		mg/Kg		98	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0503		mg/Kg		101	70 - 133
Tetrachloroethene	0.0500	0.0592		mg/Kg		118	70 - 120
Toluene	0.0500	0.0549		mg/Kg		110	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0537		mg/Kg		107	70 - 120
1,1,1-Trichloroethane	0.0500	0.0561		mg/Kg		112	70 - 120
1,1,2-Trichloroethane	0.0500	0.0517		mg/Kg		103	70 - 120
Trichloroethene	0.0500	0.0564		mg/Kg		113	70 - 120
Vinyl acetate	0.0500	0.0946	*	mg/Kg		189	60 - 150
Vinyl chloride	0.0500	0.0491		mg/Kg		98	69 - 120
Xylenes, Total	0.100	0.114		mg/Kg		114	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 122
Dibromofluoromethane	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	113		75 - 122

Lab Sample ID: LCSD 500-321546/6

Matrix: Solid

Analysis Batch: 321546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0565		mg/Kg		113	50 - 133	3	30
Benzene	0.0500	0.0523		mg/Kg		105	70 - 120	1	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-321546/6
Matrix: Solid
Analysis Batch: 321546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0458		mg/Kg		92	69 - 120	1	30
Bromoform	0.0500	0.0439		mg/Kg		88	51 - 127	3	30
Bromomethane	0.0500	0.0357		mg/Kg		71	69 - 120	0	30
2-Butanone (MEK)	0.0500	0.0522		mg/Kg		104	50 - 148	2	30
Carbon disulfide	0.0500	0.0525		mg/Kg		105	58 - 120	5	30
Carbon tetrachloride	0.0500	0.0544		mg/Kg		109	51 - 124	3	30
Chlorobenzene	0.0500	0.0554		mg/Kg		111	70 - 120	3	30
Chloroethane	0.0500	0.0406		mg/Kg		81	49 - 125	0	30
Chloroform	0.0500	0.0530		mg/Kg		106	70 - 120	2	30
Chloromethane	0.0500	0.0577		mg/Kg		115	63 - 126	1	30
cis-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 120	1	30
Dibromochloromethane	0.0500	0.0490		mg/Kg		98	69 - 126	6	30
1,1-Dichloroethane	0.0500	0.0533		mg/Kg		107	70 - 120	0	30
1,2-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 128	4	30
1,1-Dichloroethene	0.0500	0.0578		mg/Kg		116	67 - 120	4	30
1,2-Dichloropropane	0.0500	0.0514		mg/Kg		103	70 - 120	4	30
Ethylbenzene	0.0500	0.0541		mg/Kg		108	70 - 120	1	30
2-Hexanone	0.0500	0.0557		mg/Kg		111	50 - 150	3	30
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 120	2	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0564		mg/Kg		113	50 - 150	1	30
Methyl tert-butyl ether	0.0500	0.0537		mg/Kg		107	70 - 120	3	30
Styrene	0.0500	0.0505		mg/Kg		101	70 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0504		mg/Kg		101	70 - 133	0	30
Tetrachloroethene	0.0500	0.0592		mg/Kg		118	70 - 120	0	30
Toluene	0.0500	0.0557		mg/Kg		111	70 - 120	1	30
trans-1,2-Dichloroethene	0.0500	0.0543		mg/Kg		109	70 - 120	1	30
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 120	2	30
1,1,2-Trichloroethane	0.0500	0.0543		mg/Kg		109	70 - 120	5	30
Trichloroethene	0.0500	0.0551		mg/Kg		110	70 - 120	2	30
Vinyl acetate	0.0500	0.0883 *		mg/Kg		177	60 - 150	7	30
Vinyl chloride	0.0500	0.0497		mg/Kg		99	69 - 120	1	30
Xylenes, Total	0.100	0.114		mg/Kg		114	70 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	109		70 - 122
Dibromofluoromethane	107		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	113		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-321513/1-A
Matrix: Solid
Analysis Batch: 321559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/01/16 16:46	02/02/16 11:08	1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321513/1-A
Matrix: Solid
Analysis Batch: 321559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321513

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/01/16 16:46	02/02/16 11:08	1

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321513/1-A
Matrix: Solid
Analysis Batch: 321559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321513

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/01/16 16:46	02/02/16 11:08	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/01/16 16:46	02/02/16 11:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	76		25 - 110	02/01/16 16:46	02/02/16 11:08	1
Phenol-d5	76		31 - 110	02/01/16 16:46	02/02/16 11:08	1
Nitrobenzene-d5	67		25 - 115	02/01/16 16:46	02/02/16 11:08	1
2-Fluorobiphenyl	73		25 - 119	02/01/16 16:46	02/02/16 11:08	1
2,4,6-Tribromophenol	52		35 - 137	02/01/16 16:46	02/02/16 11:08	1
Terphenyl-d14	93		36 - 134	02/01/16 16:46	02/02/16 11:08	1

Lab Sample ID: LCS 500-321513/2-A
Matrix: Solid
Analysis Batch: 321559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.08		mg/Kg		81	41 - 110
Bis(2-chloroethyl)ether	1.33	1.09		mg/Kg		82	32 - 110
1,3-Dichlorobenzene	1.33	1.07		mg/Kg		80	44 - 110
1,4-Dichlorobenzene	1.33	1.09		mg/Kg		81	45 - 110
1,2-Dichlorobenzene	1.33	1.11		mg/Kg		83	48 - 110
2-Methylphenol	1.33	1.10		mg/Kg		83	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.02		mg/Kg		76	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.08		mg/Kg		81	24 - 123
Hexachloroethane	1.33	1.10		mg/Kg		83	44 - 110
2-Chlorophenol	1.33	1.13		mg/Kg		84	47 - 114
Nitrobenzene	1.33	1.17		mg/Kg		87	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.15		mg/Kg		86	42 - 110
1,2,4-Trichlorobenzene	1.33	1.19		mg/Kg		89	49 - 110
Isophorone	1.33	1.19		mg/Kg		89	35 - 110
2,4-Dimethylphenol	1.33	1.13		mg/Kg		85	49 - 110
Hexachlorobutadiene	1.33	1.22		mg/Kg		92	47 - 114
Naphthalene	1.33	1.13		mg/Kg		84	48 - 110
2,4-Dichlorophenol	1.33	1.19		mg/Kg		89	53 - 113
4-Chloroaniline	1.33	1.40		mg/Kg		105	16 - 118
2,4,6-Trichlorophenol	1.33	1.00		mg/Kg		75	44 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321513/2-A
Matrix: Solid
Analysis Batch: 321559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1.33	0.995		mg/Kg		75	41 - 120
Hexachlorocyclopentadiene	1.33	0.913		mg/Kg		68	10 - 110
2-Methylnaphthalene	1.33	1.09		mg/Kg		82	48 - 110
2-Nitroaniline	1.33	1.10		mg/Kg		82	42 - 122
2-Chloronaphthalene	1.33	1.06		mg/Kg		80	52 - 114
4-Chloro-3-methylphenol	1.33	1.22		mg/Kg		92	52 - 111
2,6-Dinitrotoluene	1.33	1.13		mg/Kg		85	54 - 117
2-Nitrophenol	1.33	1.16		mg/Kg		87	48 - 113
3-Nitroaniline	1.33	1.13		mg/Kg		85	36 - 131
Dimethyl phthalate	1.33	1.09		mg/Kg		82	56 - 113
2,4-Dinitrophenol	2.67	<0.67	*	mg/Kg		7	10 - 110
Acenaphthylene	1.33	1.06		mg/Kg		80	49 - 110
2,4-Dinitrotoluene	1.33	1.13		mg/Kg		84	53 - 122
Acenaphthene	1.33	0.955		mg/Kg		72	46 - 110
Dibenzofuran	1.33	1.07		mg/Kg		80	51 - 119
4-Nitrophenol	2.67	1.97		mg/Kg		74	10 - 157
Fluorene	1.33	1.04		mg/Kg		78	47 - 121
4-Nitroaniline	1.33	1.32		mg/Kg		99	28 - 157
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	55 - 113
Hexachlorobenzene	1.33	1.23		mg/Kg		92	54 - 114
Diethyl phthalate	1.33	1.07		mg/Kg		80	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.09		mg/Kg		82	53 - 117
Pentachlorophenol	2.67	1.88		mg/Kg		71	10 - 124
N-Nitrosodiphenylamine	1.33	1.26		mg/Kg		95	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.610	J	mg/Kg		23	10 - 110
Phenanthrene	1.33	1.19		mg/Kg		89	48 - 121
Anthracene	1.33	1.21		mg/Kg		91	48 - 118
Carbazole	1.33	1.35		mg/Kg		101	26 - 188
Di-n-butyl phthalate	1.33	1.26		mg/Kg		95	50 - 128
Fluoranthene	1.33	1.26		mg/Kg		94	48 - 128
Pyrene	1.33	1.19		mg/Kg		90	46 - 114
Butyl benzyl phthalate	1.33	1.24		mg/Kg		93	49 - 121
Benzo[a]anthracene	1.33	1.18		mg/Kg		88	49 - 121
Chrysene	1.33	1.24		mg/Kg		93	45 - 118
3,3'-Dichlorobenzidine	1.33	1.11		mg/Kg		83	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	47 - 133
Di-n-octyl phthalate	1.33	1.29		mg/Kg		96	46 - 138
Benzo[b]fluoranthene	1.33	1.27		mg/Kg		95	54 - 122
Benzo[k]fluoranthene	1.33	1.29		mg/Kg		96	44 - 137
Benzo[a]pyrene	1.33	1.31		mg/Kg		98	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	49 - 132
Dibenz(a,h)anthracene	1.33	1.38		mg/Kg		103	48 - 134
Benzo[g,h,i]perylene	1.33	1.35		mg/Kg		101	52 - 125
3 & 4 Methylphenol	1.33	1.07		mg/Kg		80	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	85		25 - 110
Phenol-d5	88		31 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321513/2-A
Matrix: Solid
Analysis Batch: 321559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321513

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	89		25 - 115
2-Fluorobiphenyl	83		25 - 119
2,4,6-Tribromophenol	86		35 - 137
Terphenyl-d14	102		36 - 134

Lab Sample ID: 500-106984-1 MS
Matrix: Solid
Analysis Batch: 321697

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: Total/NA
Prep Batch: 321513

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.20		1.54	1.12		mg/Kg	☼	73	41 - 110
Bis(2-chloroethyl)ether	<0.20		1.54	1.14		mg/Kg	☼	74	32 - 110
1,3-Dichlorobenzene	<0.20		1.54	0.908		mg/Kg	☼	59	44 - 110
1,4-Dichlorobenzene	<0.20		1.54	0.913		mg/Kg	☼	59	45 - 110
1,2-Dichlorobenzene	<0.20		1.54	0.930		mg/Kg	☼	60	48 - 110
2-Methylphenol	<0.20		1.54	1.07		mg/Kg	☼	69	44 - 110
2,2'-oxybis[1-chloropropane]	<0.20		1.54	1.12		mg/Kg	☼	73	30 - 115
N-Nitrosodi-n-propylamine	<0.079		1.54	1.09		mg/Kg	☼	71	24 - 123
Hexachloroethane	<0.20		1.54	0.835		mg/Kg	☼	54	44 - 110
2-Chlorophenol	<0.20		1.54	1.15		mg/Kg	☼	75	47 - 114
Nitrobenzene	<0.039		1.54	1.08		mg/Kg	☼	70	35 - 113
Bis(2-chloroethoxy)methane	<0.20		1.54	1.18		mg/Kg	☼	77	42 - 110
1,2,4-Trichlorobenzene	<0.20		1.54	1.09		mg/Kg	☼	71	49 - 110
Isophorone	<0.20		1.54	1.16		mg/Kg	☼	75	35 - 110
2,4-Dimethylphenol	<0.39		1.54	1.10		mg/Kg	☼	72	49 - 110
Hexachlorobutadiene	<0.20		1.54	1.00		mg/Kg	☼	65	47 - 114
Naphthalene	<0.039		1.54	1.07		mg/Kg	☼	69	48 - 110
2,4-Dichlorophenol	<0.39		1.54	1.14		mg/Kg	☼	74	53 - 113
4-Chloroaniline	<0.79	F2	1.54	1.06		mg/Kg	☼	69	16 - 118
2,4,6-Trichlorophenol	<0.39		1.54	0.948		mg/Kg	☼	62	44 - 118
2,4,5-Trichlorophenol	<0.39		1.54	0.940		mg/Kg	☼	61	41 - 120
Hexachlorocyclopentadiene	<0.79		1.54	0.489	J	mg/Kg	☼	32	10 - 110
2-Methylnaphthalene	<0.039		1.54	1.16		mg/Kg	☼	75	48 - 110
2-Nitroaniline	<0.20		1.54	1.17		mg/Kg	☼	76	42 - 122
2-Chloronaphthalene	<0.20		1.54	1.02		mg/Kg	☼	67	52 - 114
4-Chloro-3-methylphenol	<0.39		1.54	1.17		mg/Kg	☼	76	52 - 111
2,6-Dinitrotoluene	<0.20		1.54	1.04		mg/Kg	☼	67	54 - 117
2-Nitrophenol	<0.39		1.54	1.19		mg/Kg	☼	77	48 - 113
3-Nitroaniline	<0.39		1.54	1.32		mg/Kg	☼	86	36 - 131
Dimethyl phthalate	<0.20		1.54	1.11		mg/Kg	☼	72	56 - 113
2,4-Dinitrophenol	<0.79	F1 *	3.08	<0.77	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.039		1.54	1.05		mg/Kg	☼	68	49 - 110
2,4-Dinitrotoluene	<0.20		1.54	1.01		mg/Kg	☼	66	53 - 122
Acenaphthene	<0.039		1.54	1.05		mg/Kg	☼	68	46 - 110
Dibenzofuran	<0.20		1.54	1.03		mg/Kg	☼	67	51 - 119
4-Nitrophenol	<0.79		3.08	2.36		mg/Kg	☼	77	10 - 157
Fluorene	<0.039		1.54	1.18		mg/Kg	☼	76	47 - 121
4-Nitroaniline	<0.39		1.54	1.52		mg/Kg	☼	99	28 - 157

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-106984-1 MS

Matrix: Solid

Analysis Batch: 321697

Client Sample ID: 2746-01-B92 (0-5)

Prep Type: Total/NA

Prep Batch: 321513

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
4-Bromophenyl phenyl ether	<0.20		1.54	1.34		mg/Kg	☼	87		55 - 113
Hexachlorobenzene	<0.079		1.54	1.32		mg/Kg	☼	86		54 - 114
Diethyl phthalate	<0.20		1.54	1.11		mg/Kg	☼	72		50 - 128
4-Chlorophenyl phenyl ether	<0.20		1.54	1.14		mg/Kg	☼	74		53 - 117
Pentachlorophenol	<0.79		3.08	1.09		mg/Kg	☼	35		10 - 124
N-Nitrosodiphenylamine	<0.20		1.54	1.24		mg/Kg	☼	81		52 - 111
4,6-Dinitro-2-methylphenol	<0.79	F1	3.08	0.772		mg/Kg	☼	25		10 - 110
Phenanthrene	0.013	J	1.54	1.37		mg/Kg	☼	88		48 - 121
Anthracene	<0.039		1.54	1.34		mg/Kg	☼	87		48 - 118
Carbazole	<0.20		1.54	1.46		mg/Kg	☼	95		26 - 188
Di-n-butyl phthalate	<0.20		1.54	1.40		mg/Kg	☼	91		50 - 128
Fluoranthene	0.014	J	1.54	1.46		mg/Kg	☼	94		48 - 128
Pyrene	0.022	J	1.54	1.77		mg/Kg	☼	114		46 - 114
Butyl benzyl phthalate	<0.20		1.54	1.64		mg/Kg	☼	107		49 - 121
Benzo[a]anthracene	0.012	J	1.54	1.36		mg/Kg	☼	88		49 - 121
Chrysene	0.019	J	1.54	1.48		mg/Kg	☼	95		45 - 118
3,3'-Dichlorobenzidine	<0.20		1.54	0.485		mg/Kg	☼	32		26 - 128
Bis(2-ethylhexyl) phthalate	<0.20		1.54	1.59		mg/Kg	☼	104		47 - 133
Di-n-octyl phthalate	<0.20		1.54	1.19		mg/Kg	☼	78		46 - 138
Benzo[b]fluoranthene	0.0092	J F1	1.54	1.78		mg/Kg	☼	115		54 - 122
Benzo[k]fluoranthene	<0.039		1.54	1.81		mg/Kg	☼	118		44 - 137
Benzo[a]pyrene	0.0084	J	1.54	1.43		mg/Kg	☼	92		53 - 122
Indeno[1,2,3-cd]pyrene	<0.039		1.54	0.923		mg/Kg	☼	60		49 - 132
Dibenz(a,h)anthracene	<0.039		1.54	1.04		mg/Kg	☼	68		48 - 134
Benzo[g,h,i]perylene	<0.039	F1	1.54	0.807		mg/Kg	☼	52		52 - 125
3 & 4 Methylphenol	<0.20		1.54	1.14		mg/Kg	☼	74		37 - 122

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	73		25 - 110
Phenol-d5	69		31 - 110
Nitrobenzene-d5	73		25 - 115
2-Fluorobiphenyl	67		25 - 119
2,4,6-Tribromophenol	61		35 - 137
Terphenyl-d14	117		36 - 134

Lab Sample ID: 500-106984-1 MSD

Matrix: Solid

Analysis Batch: 321697

Client Sample ID: 2746-01-B92 (0-5)

Prep Type: Total/NA

Prep Batch: 321513

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.20		1.53	1.25		mg/Kg	☼	82		41 - 110	11	30
Bis(2-chloroethyl)ether	<0.20		1.53	1.34		mg/Kg	☼	87		32 - 110	16	30
1,3-Dichlorobenzene	<0.20		1.53	1.02		mg/Kg	☼	67		44 - 110	12	30
1,4-Dichlorobenzene	<0.20		1.53	1.02		mg/Kg	☼	67		45 - 110	11	30
1,2-Dichlorobenzene	<0.20		1.53	1.04		mg/Kg	☼	68		48 - 110	11	30
2-Methylphenol	<0.20		1.53	1.17		mg/Kg	☼	76		44 - 110	9	30
2,2'-oxybis[1-chloropropane]	<0.20		1.53	1.25		mg/Kg	☼	81		30 - 115	11	30
N-Nitrosodi-n-propylamine	<0.079		1.53	1.20		mg/Kg	☼	78		24 - 123	9	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-106984-1 MSD

Matrix: Solid

Analysis Batch: 321697

Client Sample ID: 2746-01-B92 (0-5)

Prep Type: Total/NA

Prep Batch: 321513

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Hexachloroethane	<0.20		1.53	0.938		mg/Kg	☼	61	44 - 110	12	30
2-Chlorophenol	<0.20		1.53	1.26		mg/Kg	☼	82	47 - 114	9	30
Nitrobenzene	<0.039		1.53	1.31		mg/Kg	☼	85	35 - 113	19	30
Bis(2-chloroethoxy)methane	<0.20		1.53	1.34		mg/Kg	☼	87	42 - 110	13	30
1,2,4-Trichlorobenzene	<0.20		1.53	1.25		mg/Kg	☼	81	49 - 110	14	30
Isophorone	<0.20		1.53	1.38		mg/Kg	☼	90	35 - 110	17	30
2,4-Dimethylphenol	<0.39		1.53	1.23		mg/Kg	☼	80	49 - 110	11	30
Hexachlorobutadiene	<0.20		1.53	1.16		mg/Kg	☼	75	47 - 114	14	30
Naphthalene	<0.039		1.53	1.22		mg/Kg	☼	79	48 - 110	13	30
2,4-Dichlorophenol	<0.39		1.53	1.25		mg/Kg	☼	82	53 - 113	9	30
4-Chloroaniline	<0.79	F2	1.53	1.45	F2	mg/Kg	☼	94	16 - 118	31	30
2,4,6-Trichlorophenol	<0.39		1.53	1.04		mg/Kg	☼	68	44 - 118	9	30
2,4,5-Trichlorophenol	<0.39		1.53	0.956		mg/Kg	☼	62	41 - 120	2	30
Hexachlorocyclopentadiene	<0.79		1.53	0.508	J	mg/Kg	☼	33	10 - 110	4	30
2-Methylnaphthalene	<0.039		1.53	1.32		mg/Kg	☼	86	48 - 110	13	30
2-Nitroaniline	<0.20		1.53	1.27		mg/Kg	☼	83	42 - 122	8	30
2-Chloronaphthalene	<0.20		1.53	1.14		mg/Kg	☼	74	52 - 114	11	30
4-Chloro-3-methylphenol	<0.39		1.53	1.29		mg/Kg	☼	84	52 - 111	10	30
2,6-Dinitrotoluene	<0.20		1.53	1.13		mg/Kg	☼	74	54 - 117	9	30
2-Nitrophenol	<0.39		1.53	1.30		mg/Kg	☼	84	48 - 113	9	30
3-Nitroaniline	<0.39		1.53	1.54		mg/Kg	☼	100	36 - 131	15	30
Dimethyl phthalate	<0.20		1.53	1.19		mg/Kg	☼	78	56 - 113	7	30
2,4-Dinitrophenol	<0.79	F1 *	3.07	<0.77	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.039		1.53	1.14		mg/Kg	☼	74	49 - 110	8	30
2,4-Dinitrotoluene	<0.20		1.53	1.07		mg/Kg	☼	70	53 - 122	6	30
Acenaphthene	<0.039		1.53	1.14		mg/Kg	☼	74	46 - 110	8	30
Dibenzofuran	<0.20		1.53	1.10		mg/Kg	☼	72	51 - 119	7	30
4-Nitrophenol	<0.79		3.07	1.94		mg/Kg	☼	63	10 - 157	19	30
Fluorene	<0.039		1.53	1.25		mg/Kg	☼	81	47 - 121	6	30
4-Nitroaniline	<0.39		1.53	1.63		mg/Kg	☼	106	28 - 157	7	30
4-Bromophenyl phenyl ether	<0.20		1.53	1.42		mg/Kg	☼	93	55 - 113	6	30
Hexachlorobenzene	<0.079		1.53	1.40		mg/Kg	☼	92	54 - 114	6	30
Diethyl phthalate	<0.20		1.53	1.16		mg/Kg	☼	76	50 - 128	5	30
4-Chlorophenyl phenyl ether	<0.20		1.53	1.23		mg/Kg	☼	80	53 - 117	8	30
Pentachlorophenol	<0.79		3.07	0.958		mg/Kg	☼	31	10 - 124	13	30
N-Nitrosodiphenylamine	<0.20		1.53	1.34		mg/Kg	☼	87	52 - 111	8	30
4,6-Dinitro-2-methylphenol	<0.79	F1	3.07	<0.77	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.013	J	1.53	1.40		mg/Kg	☼	91	48 - 121	2	30
Anthracene	<0.039		1.53	1.39		mg/Kg	☼	91	48 - 118	4	30
Carbazole	<0.20		1.53	1.55		mg/Kg	☼	101	26 - 188	6	30
Di-n-butyl phthalate	<0.20		1.53	1.48		mg/Kg	☼	96	50 - 128	6	30
Fluoranthene	0.014	J	1.53	1.46		mg/Kg	☼	94	48 - 128	0	30
Pyrene	0.022	J	1.53	1.73		mg/Kg	☼	111	46 - 114	3	30
Butyl benzyl phthalate	<0.20		1.53	1.72		mg/Kg	☼	112	49 - 121	5	30
Benzo[a]anthracene	0.012	J	1.53	1.39		mg/Kg	☼	90	49 - 121	2	30
Chrysene	0.019	J	1.53	1.53		mg/Kg	☼	98	45 - 118	3	30
3,3'-Dichlorobenzidine	<0.20		1.53	0.545		mg/Kg	☼	36	26 - 128	12	30
Bis(2-ethylhexyl) phthalate	<0.20		1.53	1.67		mg/Kg	☼	109	47 - 133	4	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-106984-1 MSD

Matrix: Solid

Analysis Batch: 321697

Client Sample ID: 2746-01-B92 (0-5)

Prep Type: Total/NA

Prep Batch: 321513

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Di-n-octyl phthalate	<0.20		1.53	1.30		mg/Kg	☼	85	46 - 138	8	30	
Benzo[b]fluoranthene	0.0092	J F1	1.53	1.93	F1	mg/Kg	☼	125	54 - 122	8	30	
Benzo[k]fluoranthene	<0.039		1.53	1.83		mg/Kg	☼	119	44 - 137	1	30	
Benzo[a]pyrene	0.0084	J	1.53	1.48		mg/Kg	☼	96	53 - 122	3	30	
Indeno[1,2,3-cd]pyrene	<0.039		1.53	0.768		mg/Kg	☼	50	49 - 132	18	30	
Dibenz(a,h)anthracene	<0.039		1.53	0.863		mg/Kg	☼	56	48 - 134	19	30	
Benzo[g,h,i]perylene	<0.039	F1	1.53	0.671	F1	mg/Kg	☼	44	52 - 125	18	30	
3 & 4 Methylphenol	<0.20		1.53	1.27		mg/Kg	☼	83	37 - 122	12	30	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	83		25 - 110
Phenol-d5	81		31 - 110
Nitrobenzene-d5	93		25 - 115
2-Fluorobiphenyl	77		25 - 119
2,4,6-Tribromophenol	65		35 - 137
Terphenyl-d14	123		36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-321396/1-A

Matrix: Solid

Analysis Batch: 321554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 321396

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Arsenic	<1.0		1.0	0.46	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Barium	<1.0		1.0	0.18	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Beryllium	<0.40		0.40	0.087	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Boron	<5.0		5.0	0.70	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Cadmium	<0.20		0.20	0.058	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Calcium	16.4	J	20	6.4	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Chromium	0.561	J	1.0	0.17	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Cobalt	<0.50		0.50	0.11	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Copper	<1.0		1.0	0.22	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Iron	15.4	J	20	7.7	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Lead	<0.50		0.50	0.25	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Magnesium	7.80	J	10	4.1	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Manganese	<1.0		1.0	0.20	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Nickel	<1.0		1.0	0.27	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Potassium	<50		50	8.2	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Selenium	<1.0		1.0	0.50	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Silver	<0.50		0.50	0.12	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Sodium	25.6	J	100	13	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Thallium	<1.0		1.0	0.49	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Vanadium	<0.50		0.50	0.15	mg/Kg		01/31/16 10:33	02/01/16 20:44	1
Zinc	<2.0		2.0	0.63	mg/Kg		01/31/16 10:33	02/01/16 20:44	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-321396/2-A
Matrix: Solid
Analysis Batch: 321554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.2		mg/Kg		90	80 - 120
Arsenic	10.0	9.14		mg/Kg		91	80 - 120
Barium	200	188		mg/Kg		94	80 - 120
Beryllium	5.00	4.79		mg/Kg		96	80 - 120
Boron	100	84.7		mg/Kg		85	80 - 120
Cadmium	5.00	4.69		mg/Kg		94	80 - 120
Calcium	1000	969		mg/Kg		97	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	24.1		mg/Kg		96	80 - 120
Iron	100	110		mg/Kg		110	80 - 120
Lead	10.0	9.92		mg/Kg		99	80 - 120
Magnesium	1000	946		mg/Kg		95	80 - 120
Manganese	50.0	47.5		mg/Kg		95	80 - 120
Nickel	50.0	49.2		mg/Kg		98	80 - 120
Potassium	1000	935		mg/Kg		94	80 - 120
Selenium	10.0	8.26		mg/Kg		83	80 - 120
Silver	5.00	4.84		mg/Kg		97	80 - 120
Sodium	1000	973		mg/Kg		97	80 - 120
Thallium	10.0	9.06		mg/Kg		91	80 - 120
Vanadium	50.0	50.7		mg/Kg		101	80 - 120
Zinc	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 500-106984-16 MS
Matrix: Solid
Analysis Batch: 321554

Client Sample ID: 2746-01-B54 (14-20)
Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	5.9		6.03	12.0		mg/Kg	☼	101	75 - 125
Barium	45		121	156		mg/Kg	☼	92	75 - 125
Beryllium	0.70		3.02	3.54		mg/Kg	☼	94	75 - 125
Boron	13	F1	60.3	62.4		mg/Kg	☼	81	75 - 125
Cadmium	0.053	J	3.02	2.65		mg/Kg	☼	86	75 - 125
Chromium	18	B	12.1	31.5		mg/Kg	☼	112	75 - 125
Cobalt	13		30.2	46.0		mg/Kg	☼	108	75 - 125
Copper	24		15.1	38.8		mg/Kg	☼	99	75 - 125
Iron	19000	B	60.3	20700	4	mg/Kg	☼	3358	75 - 125
Lead	13		6.03	19.8		mg/Kg	☼	107	75 - 125
Magnesium	27000	B	603	28600	4	mg/Kg	☼	211	75 - 125
Manganese	370		30.2	402	4	mg/Kg	☼	101	75 - 125
Nickel	36		30.2	68.5		mg/Kg	☼	108	75 - 125
Potassium	2900		603	5230	4	mg/Kg	☼	385	75 - 125
Selenium	<0.59		6.03	4.67		mg/Kg	☼	77	75 - 125
Silver	<0.29		3.02	2.74		mg/Kg	☼	91	75 - 125
Sodium	400	B	603	1010		mg/Kg	☼	102	75 - 125
Thallium	<0.59		6.03	5.30		mg/Kg	☼	88	75 - 125
Vanadium	20		30.2	52.8		mg/Kg	☼	107	75 - 125
Zinc	52		30.2	85.2		mg/Kg	☼	109	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-106984-16 MS

Matrix: Solid
Analysis Batch: 321696

Client Sample ID: 2746-01-B54 (14-20)

Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.2	F1	30.2	3.97	F1	mg/Kg	☼	13	75 - 125

Lab Sample ID: 500-106984-16 MS

Matrix: Solid
Analysis Batch: 321696

Client Sample ID: 2746-01-B54 (14-20)

Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	65000	B	603	64500	4	mg/Kg	☼	-22	75 - 125

Lab Sample ID: 500-106984-16 MSD

Matrix: Solid
Analysis Batch: 321554

Client Sample ID: 2746-01-B54 (14-20)

Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	5.9		5.62	11.2		mg/Kg	☼	95	75 - 125	6	20
Barium	45		112	141		mg/Kg	☼	85	75 - 125	10	20
Beryllium	0.70		2.81	3.20		mg/Kg	☼	89	75 - 125	10	20
Boron	13	F1	56.2	54.0	F1	mg/Kg	☼	72	75 - 125	14	20
Cadmium	0.053	J	2.81	2.39		mg/Kg	☼	83	75 - 125	10	20
Chromium	18	B	11.2	29.8		mg/Kg	☼	105	75 - 125	5	20
Cobalt	13		28.1	43.3		mg/Kg	☼	106	75 - 125	6	20
Copper	24		14.0	37.9		mg/Kg	☼	100	75 - 125	3	20
Iron	19000	B	56.2	19900	4	mg/Kg	☼	2135	75 - 125	4	20
Lead	13		5.62	18.8		mg/Kg	☼	98	75 - 125	5	20
Magnesium	27000	B	562	27700	4	mg/Kg	☼	75	75 - 125	3	20
Manganese	370		28.1	394	4	mg/Kg	☼	80	75 - 125	2	20
Nickel	36		28.1	65.5		mg/Kg	☼	106	75 - 125	4	20
Potassium	2900		562	4570	4	mg/Kg	☼	297	75 - 125	13	20
Selenium	<0.59		5.62	4.19		mg/Kg	☼	75	75 - 125	11	20
Silver	<0.29		2.81	2.62		mg/Kg	☼	93	75 - 125	5	20
Sodium	400	B	562	936		mg/Kg	☼	96	75 - 125	8	20
Thallium	<0.59		5.62	5.13		mg/Kg	☼	91	75 - 125	3	20
Vanadium	20		28.1	48.6		mg/Kg	☼	100	75 - 125	8	20
Zinc	52		28.1	81.6		mg/Kg	☼	105	75 - 125	4	20

Lab Sample ID: 500-106984-16 MSD

Matrix: Solid
Analysis Batch: 321696

Client Sample ID: 2746-01-B54 (14-20)

Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<1.2	F1	28.1	3.81	F1	mg/Kg	☼	14	75 - 125	4	20

Lab Sample ID: 500-106984-16 MSD

Matrix: Solid
Analysis Batch: 321696

Client Sample ID: 2746-01-B54 (14-20)

Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	65000	B	562	63300	4	mg/Kg	☼	-236	75 - 125	2	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-106984-16 DU
Matrix: Solid
Analysis Batch: 321554

Client Sample ID: 2746-01-B54 (14-20)
Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	5.9		6.53		mg/Kg	☼	10	20
Barium	45		45.0		mg/Kg	☼	0.6	20
Beryllium	0.70		0.696		mg/Kg	☼	0.6	20
Boron	13	F1	13.9		mg/Kg	☼	4	20
Cadmium	0.053	J	0.0703	J F5	mg/Kg	☼	27	20
Chromium	18	B	18.4		mg/Kg	☼	3	20
Cobalt	13		14.3		mg/Kg	☼	6	20
Copper	24		25.3		mg/Kg	☼	6	20
Iron	19000	B	19300		mg/Kg	☼	3	20
Lead	13		13.9		mg/Kg	☼	4	20
Magnesium	27000	B	26400		mg/Kg	☼	3	20
Manganese	370		357		mg/Kg	☼	4	20
Nickel	36		37.5		mg/Kg	☼	4	20
Potassium	2900		3080		mg/Kg	☼	6	20
Selenium	<0.59		0.400	J	mg/Kg	☼	NC	20
Silver	<0.29		<0.29		mg/Kg	☼	NC	20
Sodium	400	B	402		mg/Kg	☼	1	20
Thallium	<0.59		<0.59		mg/Kg	☼	NC	20
Vanadium	20		20.5		mg/Kg	☼	0.6	20
Zinc	52		57.4		mg/Kg	☼	9	20

Lab Sample ID: 500-106984-16 DU
Matrix: Solid
Analysis Batch: 321696

Client Sample ID: 2746-01-B54 (14-20)
Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<1.2	F1	<1.2		mg/Kg	☼	NC	20

Lab Sample ID: 500-106984-16 DU
Matrix: Solid
Analysis Batch: 321696

Client Sample ID: 2746-01-B54 (14-20)
Prep Type: Total/NA
Prep Batch: 321396

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	65000	B	61600		mg/Kg	☼	5	20

Lab Sample ID: LCS 500-321609/2-A
Matrix: Solid
Analysis Batch: 321857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321609
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Cadmium	0.0500	0.0524		mg/L		105	80 - 120	
Lead	0.100	0.106		mg/L		106	80 - 120	
Manganese	0.500	0.537		mg/L		107	80 - 120	

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-321610/2-A
Matrix: Solid
Analysis Batch: 321878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.536		mg/L		107	80 - 120
Beryllium	0.0500	0.0518		mg/L		104	80 - 120
Boron	1.00	0.961		mg/L		96	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Iron	1.00	3.03	*	mg/L		303	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Manganese	0.500	0.528		mg/L		106	80 - 120
Nickel	0.500	0.512		mg/L		102	80 - 120
Selenium	0.100	0.0986		mg/L		99	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Zinc	0.500	0.507		mg/L		101	80 - 120

Lab Sample ID: LB 500-321479/1-C
Matrix: Solid
Analysis Batch: 321878

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321610

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 19:12	1
Boron	<0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 19:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 19:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:12	1
Cobalt	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:12	1
Iron	<0.40		0.40	0.20	mg/L		02/02/16 14:50	02/03/16 19:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 19:12	1
Manganese	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:12	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 19:12	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 19:12	1
Zinc	0.0259	J	0.50	0.020	mg/L		02/02/16 14:50	02/03/16 19:12	1

Lab Sample ID: LB2 500-321480/1-C
Matrix: Solid
Analysis Batch: 321878

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321610

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/02/16 14:50	02/03/16 20:40	1
Boron	<0.50		0.50	0.050	mg/L		02/02/16 14:50	02/03/16 20:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:50	02/03/16 20:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:40	1
Iron	<0.40		0.40	0.20	mg/L		02/02/16 14:50	02/03/16 20:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:50	02/03/16 20:40	1
Manganese	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:40	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-321480/1-C
Matrix: Solid
Analysis Batch: 321878

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321610

Analyte	LB2 LB2		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	<0.050		0.050	0.020	mg/L		02/02/16 14:50	02/03/16 20:40	1
Silver	<0.025		0.025	0.010	mg/L		02/02/16 14:50	02/03/16 20:40	1
Zinc	<0.50		0.50	0.020	mg/L		02/02/16 14:50	02/03/16 20:40	1

Lab Sample ID: 500-106984-2 MS
Matrix: Solid
Analysis Batch: 321878

Client Sample ID: 2746-01-B92 (5-10)
Prep Type: TCLP
Prep Batch: 321610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Barium	0.50		0.500	1.03		mg/L		106	50 - 150
Beryllium	<0.0040		0.0500	0.0514		mg/L		103	50 - 150
Boron	0.32	J	1.00	1.01		mg/L		69	50 - 150
Cadmium	<0.0050		0.0500	0.0555		mg/L		111	50 - 150
Chromium	<0.025		0.200	0.190		mg/L		95	50 - 150
Cobalt	0.025		0.500	0.578		mg/L		111	50 - 150
Iron	<0.40	*	1.00	1.15		mg/L		115	50 - 150
Lead	<0.0075		0.100	0.112		mg/L		112	50 - 150
Manganese	2.1		0.500	2.67	4	mg/L		120	50 - 150
Nickel	0.051		0.500	0.639		mg/L		118	50 - 150
Selenium	<0.050		0.100	0.127		mg/L		127	50 - 150
Silver	<0.025		0.0500	0.0581		mg/L		116	50 - 150
Zinc	0.066	J B	0.500	0.616		mg/L		110	50 - 150

Lab Sample ID: 500-106984-2 DU
Matrix: Solid
Analysis Batch: 321878

Client Sample ID: 2746-01-B92 (5-10)
Prep Type: TCLP
Prep Batch: 321610

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	
			Result	Qualifier			RPD	Limit
Barium	0.50		0.521		mg/L		4	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.32	J	0.336	J	mg/L		5	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.025		0.0262		mg/L		5	20
Iron	<0.40	*	0.202	J *	mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.1		2.16		mg/L		4	20
Nickel	0.051		0.0537		mg/L		5	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.066	J B	0.0680	J	mg/L		3	20

Lab Sample ID: LB 500-321483/1-B
Matrix: Solid
Analysis Batch: 321857

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 321609

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/02/16 14:47	02/03/16 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/02/16 14:47	02/03/16 18:46	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-321483/1-B
Matrix: Solid
Analysis Batch: 321857

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 321609

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/02/16 14:47	02/03/16 18:46	1

Lab Sample ID: 500-106984-3 MS
Matrix: Solid
Analysis Batch: 321857

Client Sample ID: 2746-01-B93 (0-5)
Prep Type: SPLP East
Prep Batch: 321609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	<0.0050		0.0500	0.0527		mg/L		105	50 - 150
Lead	<0.0075		0.100	0.107		mg/L		107	50 - 150
Manganese	0.032		0.500	0.582		mg/L		110	50 - 150

Lab Sample ID: 500-106984-3 DU
Matrix: Solid
Analysis Batch: 321857

Client Sample ID: 2746-01-B93 (0-5)
Prep Type: SPLP East
Prep Batch: 321609

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.032		0.0310		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-321610/2-A
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.496		mg/L		99	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LB 500-321479/1-C
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321610

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 17:54	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 17:54	1

Lab Sample ID: LB2 500-321480/1-C
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321610

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/02/16 14:50	02/04/16 19:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/02/16 14:50	02/04/16 19:03	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-106984-2 MS
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: 2746-01-B92 (5-10)
Prep Type: TCLP
Prep Batch: 321610

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060		0.500	0.491		mg/L		98	50 - 150
Thallium	<0.0020		0.100	0.103		mg/L		103	50 - 150

Lab Sample ID: 500-106984-2 DU
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: 2746-01-B92 (5-10)
Prep Type: TCLP
Prep Batch: 321610

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-321590/12-A
Matrix: Solid
Analysis Batch: 321733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321590

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:08	1

Lab Sample ID: LCS 500-321590/13-A
Matrix: Solid
Analysis Batch: 321733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321590

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00179		mg/L		90	80 - 120

Lab Sample ID: LB 500-321479/1-B
Matrix: Solid
Analysis Batch: 321733

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321590

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:12	1

Lab Sample ID: LB2 500-321480/1-B
Matrix: Solid
Analysis Batch: 321733

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321590

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/02/16 12:00	02/03/16 09:14	1

Lab Sample ID: 500-106984-1 MS
Matrix: Solid
Analysis Batch: 321733

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: TCLP
Prep Batch: 321590

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000976		mg/L		98	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-106984-1 DU
Matrix: Solid
Analysis Batch: 321733

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: TCLP
Prep Batch: 321590

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-321608/12-A
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/03/16 09:20	02/03/16 14:42	1

Lab Sample ID: LCS 500-321608/13-A
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.150		mg/Kg		90	80 - 120

Lab Sample ID: 500-106984-1 MS
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: Total/NA
Prep Batch: 321608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.017	J	0.0872	0.105		mg/Kg	☼	100	75 - 125

Lab Sample ID: 500-106984-1 MSD
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: Total/NA
Prep Batch: 321608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.017	J	0.0923	0.109		mg/Kg	☼	100	75 - 125	4	20

Lab Sample ID: 500-106984-1 DU
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: Total/NA
Prep Batch: 321608

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.017	J	0.0203		mg/Kg	☼	17	20

Method: 9045D - pH

Lab Sample ID: 500-106984-1 DU
Matrix: Solid
Analysis Batch: 321872

Client Sample ID: 2746-01-B92 (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.81		8.840		SU		0.3	

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (0-5)

Date Collected: 01/29/16 11:30

Date Received: 01/29/16 17:10

Lab Sample ID: 500-106984-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 18:59	PJ1	TAL CHI
TCLP	Leach	1311			321480	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 19:21	PJ1	TAL CHI
TCLP	Leach	1311			321480	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:02	FXG	TAL CHI
TCLP	Leach	1311			321480	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:10		
					(End)	02/03/16 15:12		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B92 (0-5)

Date Collected: 01/29/16 11:30

Date Received: 01/29/16 17:10

Lab Sample ID: 500-106984-1

Matrix: Solid

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 13:08	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 11:43	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 20:52	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:16	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 14:46	MJD	TAL CHI

Client Sample ID: 2746-01-B92 (5-10)

Date Collected: 01/29/16 11:35

Date Received: 01/29/16 17:10

Lab Sample ID: 500-106984-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 19:06	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 19:26	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Date Collected: 01/29/16 11:35

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:06	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:15		
					(End)	02/03/16 15:18		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B92 (5-10)

Lab Sample ID: 500-106984-2

Date Collected: 01/29/16 11:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 13:33	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 13:19	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 20:58	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:20	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 14:59	MJD	TAL CHI

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 19:13	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 19:47	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:23	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:24	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	321872	(Start) 02/03/16 15:18 (End) 02/03/16 15:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B93 (0-5)

Lab Sample ID: 500-106984-3

Date Collected: 01/29/16 11:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 13:59	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 13:42	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:03	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:24	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:01	MJD	TAL CHI

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Date Collected: 01/29/16 12:00

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 19:40	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 19:52	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:27	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872	(Start) 02/03/16 15:21 (End) 02/03/16 15:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B93 (5-10)

Lab Sample ID: 500-106984-4

Date Collected: 01/29/16 12:00

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 14:24	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 14:06	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:08	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:28	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:03	MJD	TAL CHI

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 19:47	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:06	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:31	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:23		
					(End)	02/03/16 15:26		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 14:49	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	322321	02/10/16 15:13	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:13	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B94 (0-8)

Lab Sample ID: 500-106984-5

Date Collected: 01/29/16 12:15

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:33	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:05	MJD	TAL CHI

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Date Collected: 01/29/16 12:55

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:09	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:11	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:43	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:34	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:26		
					(End)	02/03/16 15:29		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B111 (0-8)

Lab Sample ID: 500-106984-6

Date Collected: 01/29/16 12:55

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 15:14	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 10:56	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:18	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:07	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Date Collected: 01/29/16 13:10

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:16	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:16	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:47	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:36	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:29		
					(End)	02/03/16 15:32		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B112 (0-8)

Lab Sample ID: 500-106984-7

Date Collected: 01/29/16 13:10

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 15:38	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 12:07	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:31	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 19:37	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:42	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:09	MJD	TAL CHI

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:23	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:22	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:51	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:38	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:32		
					(End)	02/03/16 15:34		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B110 (0-8)

Lab Sample ID: 500-106984-8

Date Collected: 01/29/16 13:20

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 16:04	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 12:31	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:36	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 19:46	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 19:51	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:11	MJD	TAL CHI

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:30	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:27	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	322316	02/04/16 18:55	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872	(Start) 02/03/16 15:34 (End) 02/03/16 15:37	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B109 (0-8)

Lab Sample ID: 500-106984-9

Date Collected: 01/29/16 13:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 16:29	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 14:30	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:41	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 19:55	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 20:08	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:13	MJD	TAL CHI

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:36	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:32	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 18:59	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:42	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:37		
					(End)	02/03/16 15:40		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B57 (0-6)

Lab Sample ID: 500-106984-10

Date Collected: 01/29/16 14:30

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 16:54	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 11:20	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:46	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 20:12	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 20:17	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:18	MJD	TAL CHI

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Date Collected: 01/29/16 14:45

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:43	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:44	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:07	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:40		
					(End)	02/03/16 15:43		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B56 (0-8)

Lab Sample ID: 500-106984-11

Date Collected: 01/29/16 14:45

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 17:19	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 14:54	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:51	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 20:21	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 20:26	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:20	MJD	TAL CHI

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:50	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:49	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:11	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:43		
					(End)	02/03/16 15:45		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 17:44	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	322321	02/10/16 15:42	GES	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B55 (0-8)

Lab Sample ID: 500-106984-12

Date Collected: 01/29/16 15:05

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 21:57	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 20:30	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 20:35	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:22	MJD	TAL CHI

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 20:57	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 20:54	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:16	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872	(Start) 02/03/16 15:45 (End) 02/03/16 15:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 18:09	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321965	02/05/16 04:10	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 22:02	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 20:39	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (0-7)

Lab Sample ID: 500-106984-13

Date Collected: 01/29/16 15:35

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 20:44	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:24	MJD	TAL CHI

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 21:03	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 21:08	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:20	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:48		
					(End)	02/03/16 15:51		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B54 (7-14)

Lab Sample ID: 500-106984-14

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 18:34	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 12:55	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 22:07	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 20:48	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 21:01	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:26	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 21:10	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 21:13	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:36	FXG	TAL CHI
TCLP	Leach	1311			321479	02/01/16 12:00	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:51		
					(End)	02/03/16 15:54		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B54 (7-14)D

Lab Sample ID: 500-106984-15

Date Collected: 01/29/16 15:40

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 18:59	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321965	02/05/16 04:39	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 22:12	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 21:05	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 21:10	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:28	MJD	TAL CHI

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321483	02/01/16 12:00	FXG	TAL CHI
SPLP East	Prep	3010A			321609	02/02/16 14:47	JNH	TAL CHI
SPLP East	Analysis	6010B		1	321857	02/03/16 21:33	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/02/16 10:03	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6010B		1	321878	02/03/16 21:18	PJ1	TAL CHI
TCLP	Leach	1311			321479	02/02/16 10:03	FXG	TAL CHI
TCLP	Prep	3010A			321610	02/02/16 14:50	JNH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:40	FXG	TAL CHI
TCLP	Leach	1311			321479	02/02/16 10:03	FXG	TAL CHI
TCLP	Prep	7470A			321590	02/02/16 12:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	321733	02/03/16 09:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	321872		SMO	TAL CHI
					(Start)	02/03/16 15:54		
					(End)	02/03/16 15:56		
Total/NA	Analysis	Moisture		1	321414	02/01/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B54 (14-20)

Lab Sample ID: 500-106984-16

Date Collected: 01/29/16 15:50

Matrix: Solid

Date Received: 01/29/16 17:10

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321375	01/29/16 17:54	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321546	02/02/16 19:24	BDW	TAL CHI
Total/NA	Prep	3541			321513	02/01/16 16:46	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321697	02/03/16 16:29	GES	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321554	02/01/16 22:17	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		1	321696	02/02/16 21:14	PJ1	TAL CHI
Total/NA	Prep	3050B			321396	01/31/16 10:33	JNH	TAL CHI
Total/NA	Analysis	6010B		10	321696	02/02/16 21:39	PJ1	TAL CHI
Total/NA	Prep	7471B			321608	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:30	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-106984-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: DT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____


Chain of Custody Record

Lab Job #: 500-106984

Chain of Custody Number: E905-01

Page _____ of _____

Temperature °C of Cooler: 5.2, 4.7

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
EE		1009341.0005.01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4°  500-106984 COC	
Project Name		Lab Project #		# of Containers		Matrix					
I 90		50011818									
Project Location/State		Lab PM		Date		Time					
Cook County, IL		D. Wright									
Sampler		Sample ID		Date		Time					
S. Cooper											
1		2746-01-B92(0-5)	129-16	1130	2	S	X	X	X	X	X
2		2746-01-B92(5-10)	129-16	1135	2	S	X	X	X	X	1
3		2746-01-B93(0-5)	129-16	1155	2	S	X	X	X	X	X
4		2746-01-B93(5-10)	129-16	1200	2	S	X	X	X	X	X
5		2746-01-B94(0-4)	129-16	1215	2	S	X	X	X	X	X
6		2746-01-B111(0-6)	129-16	1255	2	S	X	X	X	X	X
7		2746-01-B112(0-8)	129-16	1310	2	S	X	X	X	X	X
8		2746-01-B110(0-8)	129-16	1320	2	S	X	X	X	X	X
9		2746-01-B109(0-8)	129-16	1335	2	S	X	X	X	X	X
10		2746-01-B37(0-6)	129-16	1430	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company EE	Date 1-29-16	Time 1610	Received By <u>P. Neal</u>	Company TA	Date 1/29/16	Time 1610	Lab Courier <u>TA</u>
Relinquished By <u>P. Neal</u>	Company TA	Date 1/29/16	Time 1710	Received By <u>[Signature]</u>	Company TA-CHI	Date 01/29/16	Time 17:10	Shipped
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

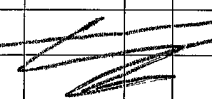
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
Contact: DT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-106984
Chain of Custody Number: E905-02
Page _____ of _____
Temperature °C of Cooler: 5.2 AF

Client		Project Name		Project Location/State		Lab Project #		Preservative		Parameter		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
EE		I 90		Cook County, IL		10011818						
MS/MSD		Sample ID		Sampling		# of Containers		Matrix		Comments		
Lab ID	MS/MSD	Date	Time									
11		2746-01-B56 (0-9)	1-29-16 1445	2	5	X	X	X	X	X		
12		2746-01-B55 (0-8)	1-29-16 1505	2	5	X	X	X	X	X		
13		2746-01-B54 (0-7)	1-29-16 1535	2	5	X	X	X	X	X		
14		2746-01-B54 (7-14)	1-29-16 1540	2	5	X	X	X	X	X		
15		2746-01-B54 (7-14) D	1-29-16 1540	2	5	X	X	X	X	X		
16		2746-01-B54 (14-20)	1-29-16 1550	2	0	X	X	X	X	X		
  1-29-16 												

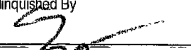
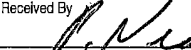
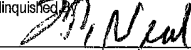
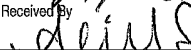
Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By 	Company EE	Date 1-29-16	Time 16:10	Received By 	Company TA	Date 1/29/16	Time 16:10	Lab Courier TA
Relinquished By 	Company TA	Date 1/29/16	Time 17:10	Received By 	Company TA-LHI	Date 01/29/16	Time 17:10	Shipped
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

Matrix Key

WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air

SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-106984-1

Login Number: 106984

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7, 5.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107010-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/15/2016 11:32:45 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Job ID: 500-107010-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-107010-1**

Comments

No additional comments.

Receipt

The samples were received on 2/2/2016 7:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 3.2° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for batch preparation batch 500-321625 and analytical batch 500-321823 recovered outside control limits for 4-Chloroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.(LCS 500-321625/2-A)

Method(s) 8270D: The following samples contained one acid and/or one base surrogate outside acceptance limits: 2746-01-B52 (0-6) (500-107010-2), 2746-01-B52 (6-12) (500-107010-3), 2746-01-B49 (6.5-13) (500-107010-9) and (500-107010-E-1-G MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 7470A: Due to a software malfunction, the times at which each sample was analyzed in AD batch 322515 were lost. The times listed in the analytical batch are an approximation. Data results were not affected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.021	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0074	J F2	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.48	J B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.057	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.71		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0090	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0093	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.010	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	9.3		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.058	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (0-6) (Continued)

Lab Sample ID: 500-107010-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	31000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	610		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.084	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.054		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.059		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.97		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.038	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.010	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.027	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.012	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	250		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.44	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.060		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.079	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.033		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (6-12) (Continued)

Lab Sample ID: 500-107010-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.022		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.019	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.2		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.071	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.064		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.097		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.080		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.046		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.063		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.095		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.034	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.058		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.032	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.040		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.6		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (7-14) (Continued)

Lab Sample ID: 500-107010-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.61		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	13		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	6.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	250		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.095	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.11		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.042		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0073	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (0-6.5) (Continued)

Lab Sample ID: 500-107010-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2700		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.30	J B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	570		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.76		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.077	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.032		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	360		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.033	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.025		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (0-6.5) (Continued)

Lab Sample ID: 500-107010-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.015	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.029	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0081	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	730		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.74		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.044		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.013	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.6	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13) (Continued)

Lab Sample ID: 500-107010-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.37	J B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.33	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.060	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.015	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.030	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.5		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	15		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	510		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.60	0.30	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (0-6) (Continued)

Lab Sample ID: 500-107010-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0076	J	0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.052		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.043		0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.021	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.029	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.018	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30		0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	24	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	36		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	63		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62	B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.78		0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	99		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.13	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019	J	0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.01		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0058	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (6-12) (Continued)

Lab Sample ID: 500-107010-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	12		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0	B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.49	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.060		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.020	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.030	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0086	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0067	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Arsenic	14		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	9.7		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	74000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	530		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55	B	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		55	7.2	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (12-18) (Continued)

Lab Sample ID: 500-107010-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.87		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.038	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.27		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.065		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.010	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.051		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.046		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.024	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.031	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.016	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.021	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	7.2		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	48000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	77		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J B	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.39		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B61 (0-6) (Continued)

Lab Sample ID: 500-107010-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.029		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.014	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.027	J	0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0093	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.023	J	0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	4.6		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.096	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	8.2	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	710		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J B	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		56	7.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	7.91		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0094	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0077	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0051	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.3		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (7-14) (Continued)

Lab Sample ID: 500-107010-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.67		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	55000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	20	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J B	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.062	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.025	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.040		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.86		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.021	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0054	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	250		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (14-20) (Continued)

Lab Sample ID: 500-107010-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.081		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.86		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.040		0.018	0.0035	mg/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	0.0053	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	90		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	6.2		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9600	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J B	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300		56	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.066	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	4.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.90		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.019	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.010	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0069	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B64 (0-8) (Continued)

Lab Sample ID: 500-107010-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	8.7		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	34		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.52	J B	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		53	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	73		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.20		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.26		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.049		0.017	0.0033	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0049		0.0042	0.0015	mg/Kg	1	☼	8260B	Total/NA
Arsenic	4.5		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.78		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	9.5		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	40		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.65		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B66 (0-8) (Continued)

Lab Sample ID: 500-107010-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.084		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.019	0.010	mg/Kg	1	*	7471B	Total/NA
pH	7.98		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107010-1	2746-01-B53 (0-7)	Solid	02/01/16 10:00	02/02/16 07:45
500-107010-2	2746-01-B52 (0-6)	Solid	02/01/16 10:40	02/02/16 07:45
500-107010-3	2746-01-B52 (6-12)	Solid	02/01/16 10:45	02/02/16 07:45
500-107010-4	2746-01-B51 (0-7)	Solid	02/01/16 11:55	02/02/16 07:45
500-107010-5	2746-01-B51 (7-14)	Solid	02/01/16 12:00	02/02/16 07:45
500-107010-6	2746-01-B50 (0-6.5)	Solid	02/01/16 12:25	02/02/16 07:45
500-107010-7	2746-01-B50 (6.5-13)	Solid	02/01/16 12:30	02/02/16 07:45
500-107010-8	2746-01-B49 (0-6.5)	Solid	02/01/16 13:10	02/02/16 07:45
500-107010-9	2746-01-B49 (6.5-13)	Solid	02/01/16 13:15	02/02/16 07:45
500-107010-10	2746-01-B49 (6.5-13)D	Solid	02/01/16 13:15	02/02/16 07:45
500-107010-11	2746-02-B01 (0-6)	Solid	02/01/16 11:15	02/02/16 07:45
500-107010-12	2746-02-B01 (6-12)	Solid	02/01/16 11:20	02/02/16 07:45
500-107010-13	2746-02-B01 (12-18)	Solid	02/01/16 11:30	02/02/16 07:45
500-107010-14	2746-01-B61 (0-6)	Solid	02/01/16 14:15	02/02/16 07:45
500-107010-15	2746-01-B62 (0-7)	Solid	02/01/16 15:00	02/02/16 07:45
500-107010-16	2746-01-B62 (7-14)	Solid	02/01/16 15:05	02/02/16 07:45
500-107010-17	2746-01-B62 (14-20)	Solid	02/01/16 15:15	02/02/16 07:45
500-107010-18	2746-01-B63 (0-8)	Solid	02/01/16 15:35	02/02/16 07:45
500-107010-19	2746-01-B64 (0-8)	Solid	02/01/16 15:40	02/02/16 07:45
500-107010-20	2746-01-B66 (0-8)	Solid	02/01/16 16:00	02/02/16 07:45

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Date Collected: 02/01/16 10:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Bromodichloromethane	<0.0039		0.0039	0.00065	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Chlorobenzene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Chloroform	<0.0039		0.0039	0.00075	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Toluene	<0.0039		0.0039	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 12:08	1
Dibromofluoromethane	100		75 - 120	02/02/16 08:55	02/04/16 12:08	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/02/16 08:55	02/04/16 12:08	1
Toluene-d8 (Surr)	103		75 - 122	02/02/16 08:55	02/04/16 12:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19	F1 F2	0.19	0.086	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Bis(2-chloroethyl)ether	<0.19	F1 F2	0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
1,3-Dichlorobenzene	<0.19	F1 F2	0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
1,4-Dichlorobenzene	<0.19	F1 F2	0.19	0.049	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Date Collected: 02/01/16 10:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19	F1 F2	0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2-Methylphenol	<0.19	F1 F2	0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
N-Nitrosodi-n-propylamine	<0.078	F1 F2	0.078	0.047	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Hexachloroethane	<0.19	F1 F2	0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2-Chlorophenol	<0.19	F1 F2	0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Nitrobenzene	<0.038	F1 F2	0.038	0.0096	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Bis(2-chloroethoxy)methane	<0.19	F1 F2	0.19	0.039	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
1,2,4-Trichlorobenzene	<0.19	F1 F2	0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Isophorone	<0.19	F1 F2	0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,4-Dimethylphenol	<0.38	F1 F2	0.38	0.15	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Hexachlorobutadiene	<0.19	F1 F2	0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Naphthalene	<0.038	F1 F2	0.038	0.0059	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,4-Dichlorophenol	<0.38	F1 F2	0.38	0.092	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4-Chloroaniline	<0.78	* F2	0.78	0.18	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,4,6-Trichlorophenol	<0.38	F1 F2	0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,4,5-Trichlorophenol	<0.38	F2	0.38	0.088	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2-Methylnaphthalene	<0.038	F1 F2	0.038	0.0071	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2-Nitroaniline	<0.19	F2	0.19	0.052	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2-Chloronaphthalene	<0.19	F1 F2	0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4-Chloro-3-methylphenol	<0.38	F1 F2	0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,6-Dinitrotoluene	<0.19	F1 F2	0.19	0.076	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2-Nitrophenol	<0.38	F1 F2	0.38	0.091	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Dimethyl phthalate	<0.19	F1 F2	0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,4-Dinitrophenol	<0.78	F1	0.78	0.68	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Acenaphthylene	<0.038	F1 F2	0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
2,4-Dinitrotoluene	<0.19	F2	0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Acenaphthene	<0.038	F2	0.038	0.0069	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Dibenzofuran	<0.19	F2	0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4-Bromophenyl phenyl ether	<0.19	F2	0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Hexachlorobenzene	<0.078	F2	0.078	0.0089	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Pentachlorophenol	<0.78	F1	0.78	0.62	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
N-Nitrosodiphenylamine	<0.19	F2	0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
4,6-Dinitro-2-methylphenol	<0.78	F1	0.78	0.31	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Phenanthrene	0.021	J	0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Pyrene	<0.038	F2	0.038	0.0077	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Butyl benzyl phthalate	<0.19	F2	0.19	0.073	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Benzo[a]anthracene	0.0074	J F2	0.038	0.0052	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Date Collected: 02/01/16 10:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038	F2	0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
3,3'-Dichlorobenzidine	<0.19	F1 F2	0.19	0.054	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Bis(2-ethylhexyl) phthalate	<0.19	F2	0.19	0.070	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Benzo[b]fluoranthene	<0.038	F2	0.038	0.0083	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Benzo[k]fluoranthene	<0.038	F2	0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Benzo[a]pyrene	<0.038	F2	0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Indeno[1,2,3-cd]pyrene	<0.038	F1 F2	0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Dibenz(a,h)anthracene	<0.038	F1 F2	0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
Benzo[g,h,i]perylene	<0.038	F1 F2	0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1
3 & 4 Methylphenol	<0.19	F1 F2	0.19	0.064	mg/Kg	☼	02/02/16 16:29	02/03/16 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	02/02/16 16:29	02/03/16 23:24	1
Phenol-d5	66		31 - 110	02/02/16 16:29	02/03/16 23:24	1
Nitrobenzene-d5	62		25 - 115	02/02/16 16:29	02/03/16 23:24	1
2-Fluorobiphenyl	59		25 - 119	02/02/16 16:29	02/03/16 23:24	1
2,4,6-Tribromophenol	40		35 - 137	02/02/16 16:29	02/03/16 23:24	1
Terphenyl-d14	65		36 - 134	02/02/16 16:29	02/03/16 23:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Arsenic	7.3		0.56	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Barium	47		0.56	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Boron	11		2.8	0.39	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Calcium	54000	B	110	36	mg/Kg	☼	02/03/16 15:19	02/10/16 20:04	10
Chromium	18	B	0.56	0.097	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Copper	23		0.56	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Iron	19000	B	11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Lead	13		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Magnesium	27000	B	5.6	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Manganese	340		0.56	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Nickel	36		0.56	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Potassium	2500		28	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Selenium	0.48	J B	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Sodium	1500		56	7.5	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Thallium	0.53	J	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Vanadium	18		0.28	0.082	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1
Zinc	55		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 21:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 22:27	1
Boron	0.50		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Date Collected: 02/01/16 10:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Iron	<0.40		0.40	0.20	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Manganese	1.4		0.025	0.010	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Nickel	0.019	J	0.025	0.010	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Silver	<0.025		0.025	0.010	mg/L	-	02/04/16 08:30	02/04/16 22:27	1
Zinc	0.057	J	0.50	0.020	mg/L	-	02/04/16 08:30	02/04/16 22:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.71		0.025	0.010	mg/L	-	02/03/16 15:00	02/04/16 16:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/04/16 08:30	02/04/16 19:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/04/16 08:30	02/04/16 19:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/04/16 13:00	02/05/16 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0094	mg/Kg	☼	02/03/16 09:20	02/03/16 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.88		0.200	0.200	SU	-		02/04/16 15:43	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Benzene	<0.0042		0.0042	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Chloroethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 12:32	1
Dibromofluoromethane	103		75 - 120	02/02/16 08:55	02/04/16 12:32	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/02/16 08:55	02/04/16 12:32	1
Toluene-d8 (Surr)	103		75 - 122	02/02/16 08:55	02/04/16 12:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4-Chloroaniline	<0.79 *		0.79	0.18	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Fluoranthene	0.0090	J	0.039	0.0073	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Pyrene	0.012	J	0.039	0.0078	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Benzo[a]anthracene	0.0093	J	0.039	0.0053	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Benzo[b]fluoranthene	0.010	J	0.039	0.0085	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/03/16 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110				02/02/16 16:29	02/03/16 23:53	1
Phenol-d5	67		31 - 110				02/02/16 16:29	02/03/16 23:53	1
Nitrobenzene-d5	69		25 - 115				02/02/16 16:29	02/03/16 23:53	1
2-Fluorobiphenyl	67		25 - 119				02/02/16 16:29	02/03/16 23:53	1
2,4,6-Tribromophenol	25	X	35 - 137				02/02/16 16:29	02/03/16 23:53	1
Terphenyl-d14	69		36 - 134				02/02/16 16:29	02/03/16 23:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Arsenic	6.3		0.55	0.25	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Barium	41		0.55	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Beryllium	0.50		0.22	0.047	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Boron	9.3		2.7	0.38	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Cadmium	0.058	J	0.11	0.032	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Calcium	66000	B	110	35	mg/Kg	☼	02/03/16 15:19	02/10/16 20:08	10
Chromium	16	B	0.55	0.094	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Cobalt	13		0.27	0.062	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Copper	24		0.55	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Iron	17000	B	11	4.2	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Lead	20		0.27	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Magnesium	31000	B	5.5	2.2	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Manganese	400		0.55	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Nickel	35		0.55	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Potassium	2100		27	4.5	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Sodium	610		55	7.2	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Thallium	0.36	J	0.55	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Vanadium	16		0.27	0.080	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1
Zinc	63		1.1	0.35	mg/Kg	☼	02/03/16 15:19	02/04/16 21:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 22:34	1
Boron	0.084	J	0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 22:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:34	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:34	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 22:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 22:34	1
Manganese	2.2		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:34	1
Nickel	0.054		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 22:34	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:34	1
Zinc	<0.50		0.50	0.020	mg/L		02/04/16 08:30	02/04/16 22:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.059		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 16:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 19:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 19:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			02/04/16 15:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 12:57	1
Dibromofluoromethane	106		75 - 120	02/02/16 08:55	02/04/16 12:57	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/02/16 08:55	02/04/16 12:57	1
Toluene-d8 (Surr)	108		75 - 122	02/02/16 08:55	02/04/16 12:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Naphthalene	0.012	J	0.038	0.0060	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4-Chloroaniline	<0.78	*	0.78	0.18	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2-Methylnaphthalene	0.010	J	0.038	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Phenanthrene	0.027	J	0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110				02/02/16 16:29	02/04/16 00:22	1
Phenol-d5	83		31 - 110				02/02/16 16:29	02/04/16 00:22	1
Nitrobenzene-d5	84		25 - 115				02/02/16 16:29	02/04/16 00:22	1
2-Fluorobiphenyl	68		25 - 119				02/02/16 16:29	02/04/16 00:22	1
2,4,6-Tribromophenol	29	X	35 - 137				02/02/16 16:29	02/04/16 00:22	1
Terphenyl-d14	82		36 - 134				02/02/16 16:29	02/04/16 00:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Arsenic	5.8		0.56	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Barium	44		0.56	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Beryllium	0.63		0.22	0.048	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Boron	13		2.8	0.39	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Calcium	59000	B	110	36	mg/Kg	☼	02/03/16 15:19	02/10/16 20:12	10
Chromium	17	B	0.56	0.096	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Cobalt	13		0.28	0.063	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Copper	24		0.56	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Iron	18000	B	11	4.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Lead	13		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Magnesium	28000	B	5.6	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Manganese	360		0.56	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Nickel	35		0.56	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Potassium	2700		28	4.5	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Selenium	0.38	J B	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Sodium	250		56	7.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Thallium	0.44	J	0.56	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Vanadium	18		0.28	0.081	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1
Zinc	52		1.1	0.35	mg/Kg	☼	02/03/16 15:19	02/04/16 22:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 22:41	1
Boron	0.69		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 22:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:41	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:41	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 22:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 22:41	1
Manganese	1.9		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:41	1
Nickel	0.060		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 22:41	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:41	1
Zinc	0.079	J	0.50	0.020	mg/L		02/04/16 08:30	02/04/16 22:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.033		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 16:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			02/04/16 15:46	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Date Collected: 02/01/16 11:55

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Bromodichloromethane	<0.0039		0.0039	0.00065	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Chlorobenzene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Chloroform	<0.0039		0.0039	0.00075	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Dibromochloromethane	<0.0039		0.0039	0.00044	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Styrene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Tetrachloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Toluene	<0.0039		0.0039	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	02/02/16 08:55	02/04/16 13:21	1
Dibromofluoromethane	104		75 - 120	02/02/16 08:55	02/04/16 13:21	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/02/16 08:55	02/04/16 13:21	1
Toluene-d8 (Surr)	106		75 - 122	02/02/16 08:55	02/04/16 13:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Date Collected: 02/01/16 11:55

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Phenanthrene	0.019	J	0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Date Collected: 02/01/16 11:55

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	59		25 - 110	02/02/16 16:29	02/04/16 00:51	1
Phenol-d5	62		31 - 110	02/02/16 16:29	02/04/16 00:51	1
Nitrobenzene-d5	57		25 - 115	02/02/16 16:29	02/04/16 00:51	1
2-Fluorobiphenyl	54		25 - 119	02/02/16 16:29	02/04/16 00:51	1
2,4,6-Tribromophenol	54		35 - 137	02/02/16 16:29	02/04/16 00:51	1
Terphenyl-d14	66		36 - 134	02/02/16 16:29	02/04/16 00:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Arsenic	6.2		0.57	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Barium	44		0.57	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Boron	13		2.8	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Calcium	56000 B		110	37	mg/Kg	☼	02/03/16 15:19	02/10/16 20:17	10
Chromium	17 B		0.57	0.098	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Cobalt	16		0.28	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Copper	26		0.57	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Iron	18000 B		11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Lead	15		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Magnesium	27000 B		5.7	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Manganese	420		0.57	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Nickel	35		0.57	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Potassium	2600		28	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Sodium	330		57	7.5	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Vanadium	18		0.28	0.083	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1
Zinc	49		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 22:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35 J		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 22:48	1
Boron	0.46 J		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Date Collected: 02/01/16 11:55

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 22:48	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:48	1
Cobalt	0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:48	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 22:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 22:48	1
Manganese	1.9		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:48	1
Nickel	0.039		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:48	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 22:48	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:48	1
Zinc	0.071	J	0.50	0.020	mg/L		02/04/16 08:30	02/04/16 22:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 16:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			02/04/16 15:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 79.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 13:45	1
Dibromofluoromethane	102		75 - 120	02/02/16 08:55	02/04/16 13:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/02/16 08:55	02/04/16 13:45	1
Toluene-d8 (Surr)	102		75 - 122	02/02/16 08:55	02/04/16 13:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Naphthalene	0.011	J	0.040	0.0062	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4-Chloroaniline	<0.82	*	0.82	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Phenanthrene	0.064		0.040	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Fluoranthene	0.097		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Pyrene	0.080		0.040	0.0080	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Benzo[a]anthracene	0.046		0.040	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 79.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.063		0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Benzo[b]fluoranthene	0.095		0.040	0.0087	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Benzo[k]fluoranthene	0.034 J		0.040	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Benzo[a]pyrene	0.058		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Indeno[1,2,3-cd]pyrene	0.032 J		0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
Benzo[g,h,i]perylene	0.040		0.040	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/02/16 16:29	02/04/16 01:20	1
Phenol-d5	79		31 - 110	02/02/16 16:29	02/04/16 01:20	1
Nitrobenzene-d5	74		25 - 115	02/02/16 16:29	02/04/16 01:20	1
2-Fluorobiphenyl	69		25 - 119	02/02/16 16:29	02/04/16 01:20	1
2,4,6-Tribromophenol	62		35 - 137	02/02/16 16:29	02/04/16 01:20	1
Terphenyl-d14	77		36 - 134	02/02/16 16:29	02/04/16 01:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Arsenic	6.6		0.60	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Barium	47		0.60	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Beryllium	0.61		0.24	0.052	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Boron	13		3.0	0.42	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Calcium	59000 B		120	39	mg/Kg	☼	02/03/16 15:19	02/10/16 20:21	10
Chromium	18 B		0.60	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Cobalt	14		0.30	0.068	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Copper	25		0.60	0.13	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Iron	19000 B		12	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Lead	26		0.30	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Magnesium	27000 B		6.0	2.5	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Manganese	350		0.60	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Nickel	37		0.60	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Potassium	2600		30	4.9	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Sodium	250		60	8.0	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Thallium	0.37 J		0.60	0.30	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Vanadium	18		0.30	0.088	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1
Zinc	56		1.2	0.38	mg/Kg	☼	02/03/16 15:19	02/04/16 22:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 22:54	1
Boron	0.13 J		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 22:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 79.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 22:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:54	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:54	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 22:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 22:54	1
Manganese	2.2		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:54	1
Nickel	0.041		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 22:54	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 22:54	1
Zinc	0.095	J	0.50	0.020	mg/L		02/04/16 08:30	02/04/16 22:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.031		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 17:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0099	mg/Kg	☼	02/03/16 09:20	02/03/16 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			02/04/16 15:50	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Date Collected: 02/01/16 12:25

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Dibromochloromethane	<0.0040		0.0040	0.00045	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,1-Dichloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Styrene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/02/16 08:55	02/04/16 14:11	1
Dibromofluoromethane	105		75 - 120	02/02/16 08:55	02/04/16 14:11	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/02/16 08:55	02/04/16 14:11	1
Toluene-d8 (Surr)	103		75 - 122	02/02/16 08:55	02/04/16 14:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Date Collected: 02/01/16 12:25

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4-Chloroaniline	<0.77	*	0.77	0.18	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Phenanthrene	0.042		0.038	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Fluoranthene	0.020	J	0.038	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Pyrene	0.019	J	0.038	0.0076	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Benzo[a]anthracene	0.0073	J	0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Date Collected: 02/01/16 12:25

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Benzo[b]fluoranthene	0.018	J	0.038	0.0082	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Benzo[a]pyrene	0.011	J	0.038	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110				02/02/16 16:29	02/04/16 01:49	1
Phenol-d5	73		31 - 110				02/02/16 16:29	02/04/16 01:49	1
Nitrobenzene-d5	71		25 - 115				02/02/16 16:29	02/04/16 01:49	1
2-Fluorobiphenyl	72		25 - 119				02/02/16 16:29	02/04/16 01:49	1
2,4,6-Tribromophenol	51		35 - 137				02/02/16 16:29	02/04/16 01:49	1
Terphenyl-d14	83		36 - 134				02/02/16 16:29	02/04/16 01:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Arsenic	5.7		0.57	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Barium	48		0.57	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Beryllium	0.64		0.23	0.049	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Boron	13		2.8	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Calcium	54000	B	110	37	mg/Kg	☼	02/03/16 15:19	02/10/16 20:32	10
Chromium	18	B	0.57	0.098	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Copper	23		0.57	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Lead	14		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Magnesium	27000	B	5.7	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Manganese	340		0.57	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Nickel	36		0.57	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Potassium	2700		28	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Selenium	0.30	J B	0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Sodium	570		57	7.5	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Thallium	0.76		0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Vanadium	18		0.28	0.083	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1
Zinc	52		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 22:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 23:01	1
Boron	0.077	J	0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Date Collected: 02/01/16 12:25

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 23:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:01	1
Cobalt	0.023	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:01	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 23:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 23:01	1
Manganese	2.2		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:01	1
Nickel	0.045		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 23:01	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:01	1
Zinc	<0.50		0.50	0.020	mg/L		02/04/16 08:30	02/04/16 23:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.032		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:17	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0098	mg/Kg	☼	02/03/16 09:20	02/03/16 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			02/04/16 15:52	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Date Collected: 02/01/16 12:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/02/16 08:55	02/04/16 14:35	1
Dibromofluoromethane	105		75 - 120	02/02/16 08:55	02/04/16 14:35	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/02/16 08:55	02/04/16 14:35	1
Toluene-d8 (Surr)	106		75 - 122	02/02/16 08:55	02/04/16 14:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Date Collected: 02/01/16 12:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4-Chloroaniline	<0.78	*	0.78	0.18	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Phenanthrene	0.025	J	0.039	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Date Collected: 02/01/16 12:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110	02/02/16 16:29	02/04/16 02:19	1
Phenol-d5	81		31 - 110	02/02/16 16:29	02/04/16 02:19	1
Nitrobenzene-d5	76		25 - 115	02/02/16 16:29	02/04/16 02:19	1
2-Fluorobiphenyl	72		25 - 119	02/02/16 16:29	02/04/16 02:19	1
2,4,6-Tribromophenol	65		35 - 137	02/02/16 16:29	02/04/16 02:19	1
Terphenyl-d14	82		36 - 134	02/02/16 16:29	02/04/16 02:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Arsenic	5.9		0.58	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Barium	44		0.58	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Beryllium	0.69		0.23	0.050	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Boron	15		2.9	0.41	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Calcium	57000	B	120	37	mg/Kg	☼	02/03/16 15:19	02/10/16 20:36	10
Chromium	18	B	0.58	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Cobalt	13		0.29	0.066	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Copper	24		0.58	0.13	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Iron	19000	B	12	4.5	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Lead	14		0.29	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Magnesium	27000	B	5.8	2.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Manganese	350		0.58	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Nickel	36		0.58	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Potassium	2900		29	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Selenium	0.49	J B	0.58	0.29	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Sodium	360		58	7.7	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Thallium	0.38	J	0.58	0.29	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Vanadium	19		0.29	0.085	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1
Zinc	53		1.2	0.37	mg/Kg	☼	02/03/16 15:19	02/04/16 22:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 23:44	1
Boron	0.55		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Date Collected: 02/01/16 12:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 23:44	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:44	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:44	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 23:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 23:44	1
Manganese	1.7		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:44	1
Nickel	0.030		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:44	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 23:44	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:44	1
Zinc	0.033	J	0.50	0.020	mg/L		02/04/16 08:30	02/04/16 23:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.025		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			02/04/16 15:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Bromodichloromethane	<0.0041		0.0041	0.00068	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00078	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Vinyl chloride	<0.0041		0.0041	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/02/16 08:55	02/04/16 15:00	1
Dibromofluoromethane	104		75 - 120	02/02/16 08:55	02/04/16 15:00	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/02/16 08:55	02/04/16 15:00	1
Toluene-d8 (Surr)	107		75 - 122	02/02/16 08:55	02/04/16 15:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Naphthalene	0.015	J	0.040	0.0062	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4-Chloroaniline	<0.81	*	0.81	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Phenanthrene	0.029	J	0.040	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Pyrene	0.0081	J	0.040	0.0080	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		25 - 110	02/02/16 16:29	02/04/16 02:48	1
Phenol-d5	74		31 - 110	02/02/16 16:29	02/04/16 02:48	1
Nitrobenzene-d5	68		25 - 115	02/02/16 16:29	02/04/16 02:48	1
2-Fluorobiphenyl	65		25 - 119	02/02/16 16:29	02/04/16 02:48	1
2,4,6-Tribromophenol	63		35 - 137	02/02/16 16:29	02/04/16 02:48	1
Terphenyl-d14	75		36 - 134	02/02/16 16:29	02/04/16 02:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Arsenic	8.1		0.57	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Barium	51		0.57	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Beryllium	0.67		0.23	0.050	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Boron	14		2.9	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Calcium	53000	B	110	37	mg/Kg	☼	02/03/16 15:19	02/10/16 20:40	10
Chromium	18	B	0.57	0.098	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Cobalt	13		0.29	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Copper	25		0.57	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Iron	20000	B	11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Lead	14		0.29	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Magnesium	27000	B	5.7	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Manganese	350		0.57	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Nickel	36		0.57	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Potassium	2800		29	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Sodium	730		57	7.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Thallium	0.42	J	0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Vanadium	19		0.29	0.084	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1
Zinc	67		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 22:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.74		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 23:51	1
Boron	0.54		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 23:51	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:51	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:51	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 23:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 23:51	1
Manganese	1.9		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:51	1
Nickel	0.044		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 23:51	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:51	1
Zinc	0.11	J	0.50	0.020	mg/L		02/04/16 08:30	02/04/16 23:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			02/04/16 15:56	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/02/16 08:55	02/04/16 15:24	1
Dibromofluoromethane	104		75 - 120	02/02/16 08:55	02/04/16 15:24	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/02/16 08:55	02/04/16 15:24	1
Toluene-d8 (Surr)	105		75 - 122	02/02/16 08:55	02/04/16 15:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Naphthalene	0.013	J	0.040	0.0062	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4-Chloroaniline	<0.81	*	0.81	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Phenanthrene	0.032	J	0.040	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	54		25 - 110	02/02/16 16:29	02/04/16 03:17	1
Phenol-d5	59		31 - 110	02/02/16 16:29	02/04/16 03:17	1
Nitrobenzene-d5	52		25 - 115	02/02/16 16:29	02/04/16 03:17	1
2-Fluorobiphenyl	51		25 - 119	02/02/16 16:29	02/04/16 03:17	1
2,4,6-Tribromophenol	34	X	35 - 137	02/02/16 16:29	02/04/16 03:17	1
Terphenyl-d14	57		36 - 134	02/02/16 16:29	02/04/16 03:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Arsenic	6.7		0.56	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Barium	44		0.56	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Beryllium	0.60		0.23	0.049	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Boron	15		2.8	0.39	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Calcium	64000	B	110	36	mg/Kg	☼	02/03/16 15:19	02/10/16 20:44	10
Chromium	17	B	0.56	0.097	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Copper	23		0.56	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Iron	18000	B	11	4.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Lead	13		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Magnesium	30000	B	5.6	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Manganese	390		0.56	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Nickel	34		0.56	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Potassium	2700		28	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Selenium	0.37	J B	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Sodium	220		56	7.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Thallium	0.33	J	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Vanadium	18		0.28	0.082	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1
Zinc	47		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 22:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 23:58	1
Boron	0.54		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 23:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 23:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:58	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:58	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 23:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 23:58	1
Manganese	1.8		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:58	1
Nickel	0.032		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 23:58	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 23:58	1
Zinc	0.060	J	0.50	0.020	mg/L		02/04/16 08:30	02/04/16 23:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0098	mg/Kg	☼	02/03/16 09:20	02/03/16 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU			02/04/16 15:58	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Dibromochloromethane	<0.0040		0.0040	0.00045	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,1-Dichloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Styrene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00076	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 15:49	1
Dibromofluoromethane	107		75 - 120	02/02/16 08:55	02/04/16 15:49	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/02/16 08:55	02/04/16 15:49	1
Toluene-d8 (Surr)	106		75 - 122	02/02/16 08:55	02/04/16 15:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Naphthalene	0.015	J	0.039	0.0061	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Phenanthrene	0.030	J	0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	02/02/16 16:29	02/04/16 03:46	1
Phenol-d5	67		31 - 110	02/02/16 16:29	02/04/16 03:46	1
Nitrobenzene-d5	66		25 - 115	02/02/16 16:29	02/04/16 03:46	1
2-Fluorobiphenyl	65		25 - 119	02/02/16 16:29	02/04/16 03:46	1
2,4,6-Tribromophenol	69		35 - 137	02/02/16 16:29	02/04/16 03:46	1
Terphenyl-d14	79		36 - 134	02/02/16 16:29	02/04/16 03:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Arsenic	7.5		0.60	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Barium	45		0.60	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Beryllium	0.68		0.24	0.052	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Boron	15		3.0	0.42	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Calcium	61000	B	120	39	mg/Kg	☼	02/03/16 15:19	02/10/16 20:49	10
Chromium	18	B	0.60	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Cobalt	14		0.30	0.068	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Copper	24		0.60	0.13	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Iron	20000	B	12	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Lead	14		0.30	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Magnesium	29000	B	6.0	2.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Manganese	510		0.60	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Nickel	36		0.60	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Potassium	2900		30	4.9	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Sodium	230		60	7.9	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Thallium	0.53	J	0.60	0.30	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Vanadium	19		0.30	0.088	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1
Zinc	53		1.2	0.38	mg/Kg	☼	02/03/16 15:19	02/04/16 22:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:04	1
Boron	0.49	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:04	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:04	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:04	1
Manganese	1.8		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:04	1
Nickel	0.033		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:04	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:04	1
Zinc	0.12	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:04	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			02/04/16 16:00	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/02/16 08:55	02/04/16 16:14	1
Dibromofluoromethane	104		75 - 120	02/02/16 08:55	02/04/16 16:14	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/02/16 08:55	02/04/16 16:14	1
Toluene-d8 (Surr)	103		75 - 122	02/02/16 08:55	02/04/16 16:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Naphthalene	0.0076	J	0.040	0.0062	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4-Chloroaniline	<0.82	*	0.82	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Phenanthrene	0.044		0.040	0.0057	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Fluoranthene	0.052		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Pyrene	0.043		0.040	0.0081	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Benzo[a]anthracene	0.021	J	0.040	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.038	J	0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Benzo[b]fluoranthene	0.059		0.040	0.0088	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Benzo[k]fluoranthene	0.022	J	0.040	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Benzo[a]pyrene	0.029	J	0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Indeno[1,2,3-cd]pyrene	0.018	J	0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
Benzo[g,h,i]perylene	0.019	J	0.040	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	45		25 - 110	02/02/16 16:29	02/04/16 04:15	1
Phenol-d5	49		31 - 110	02/02/16 16:29	02/04/16 04:15	1
Nitrobenzene-d5	41		25 - 115	02/02/16 16:29	02/04/16 04:15	1
2-Fluorobiphenyl	47		25 - 119	02/02/16 16:29	02/04/16 04:15	1
2,4,6-Tribromophenol	57		35 - 137	02/02/16 16:29	02/04/16 04:15	1
Terphenyl-d14	75		36 - 134	02/02/16 16:29	02/04/16 04:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Arsenic	7.7		0.58	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Barium	65		0.58	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Beryllium	0.70		0.23	0.050	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Boron	11		2.9	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Cadmium	0.30		0.12	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Calcium	46000	B	120	37	mg/Kg	☼	02/03/16 15:19	02/10/16 20:53	10
Chromium	24	B	0.58	0.099	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Cobalt	14		0.29	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Copper	36		0.58	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Iron	20000	B	12	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Lead	63		0.29	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Magnesium	21000	B	5.8	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Manganese	390		0.58	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Nickel	37		0.58	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Potassium	2500		29	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Selenium	0.62	B	0.58	0.29	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Sodium	820		58	7.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Thallium	0.78		0.58	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Vanadium	20		0.29	0.084	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1
Zinc	99		1.2	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 22:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:11	1
Boron	0.13	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:11	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:11	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:11	1
Manganese	1.8		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:11	1
Nickel	0.022	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:11	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:11	1
Zinc	0.12	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.42		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.011	mg/Kg	☼	02/03/16 09:20	02/03/16 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			02/04/16 16:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Date Collected: 02/01/16 11:20

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/02/16 08:55	02/04/16 16:39	1
Dibromofluoromethane	105		75 - 120	02/02/16 08:55	02/04/16 16:39	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	02/02/16 08:55	02/04/16 16:39	1
Toluene-d8 (Surr)	102		75 - 122	02/02/16 08:55	02/04/16 16:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Date Collected: 02/01/16 11:20

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4-Chloroaniline	<0.80	*	0.80	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Benzo[a]anthracene	0.0058	J	0.039	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Date Collected: 02/01/16 11:20

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	02/02/16 16:29	02/04/16 04:44	1
Phenol-d5	78		31 - 110	02/02/16 16:29	02/04/16 04:44	1
Nitrobenzene-d5	76		25 - 115	02/02/16 16:29	02/04/16 04:44	1
2-Fluorobiphenyl	70		25 - 119	02/02/16 16:29	02/04/16 04:44	1
2,4,6-Tribromophenol	65		35 - 137	02/02/16 16:29	02/04/16 04:44	1
Terphenyl-d14	83		36 - 134	02/02/16 16:29	02/04/16 04:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Arsenic	6.5		0.57	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Barium	46		0.57	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Beryllium	0.65		0.23	0.050	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Boron	12		2.9	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Calcium	59000	B	110	37	mg/Kg	☼	02/03/16 15:19	02/10/16 20:57	10
Chromium	17	B	0.57	0.099	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Cobalt	14		0.29	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Copper	23		0.57	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Lead	13		0.29	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Magnesium	28000	B	5.7	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Manganese	350		0.57	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Nickel	36		0.57	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Potassium	2500		29	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Selenium	1.0	B	0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Sodium	260		57	7.6	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Thallium	0.49	J	0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Vanadium	17		0.29	0.084	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1
Zinc	52		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 22:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:18	1
Boron	0.61		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Date Collected: 02/01/16 11:20

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:18	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:18	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:18	1
Manganese	1.8		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:18	1
Nickel	0.045		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:18	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:18	1
Zinc	0.13	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.060		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 18:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 20:57	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 20:57	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			02/04/16 16:03	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Date Collected: 02/01/16 11:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Benzene	<0.0037		0.0037	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Bromodichloromethane	<0.0037		0.0037	0.00062	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Bromoform	<0.0037		0.0037	0.00075	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Carbon tetrachloride	<0.0037		0.0037	0.00079	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Chlorobenzene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Chloroethane	<0.0037		0.0037	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Chloroform	<0.0037		0.0037	0.00072	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00075	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00084	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Dibromochloromethane	<0.0037		0.0037	0.00042	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,1-Dichloroethane	<0.0037		0.0037	0.00076	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,2-Dichloropropane	<0.0037		0.0037	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00076	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Styrene	<0.0037		0.0037	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00071	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Vinyl acetate	<0.0037		0.0037	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Vinyl chloride	<0.0037		0.0037	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1
Xylenes, Total	<0.0074		0.0074	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 17:03	1
Dibromofluoromethane	106		75 - 120	02/02/16 08:55	02/04/16 17:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/02/16 08:55	02/04/16 17:03	1
Toluene-d8 (Surr)	106		75 - 122	02/02/16 08:55	02/04/16 17:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Date Collected: 02/01/16 11:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Naphthalene	0.020	J	0.038	0.0058	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4-Chloroaniline	<0.76	*	0.76	0.18	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2-Methylnaphthalene	0.030	J	0.038	0.0069	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Phenanthrene	0.048		0.038	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Pyrene	0.0086	J	0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Benzo[a]anthracene	0.0067	J	0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Date Collected: 02/01/16 11:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/02/16 16:29	02/04/16 05:13	1
Phenol-d5	76		31 - 110	02/02/16 16:29	02/04/16 05:13	1
Nitrobenzene-d5	74		25 - 115	02/02/16 16:29	02/04/16 05:13	1
2-Fluorobiphenyl	70		25 - 119	02/02/16 16:29	02/04/16 05:13	1
2,4,6-Tribromophenol	66		35 - 137	02/02/16 16:29	02/04/16 05:13	1
Terphenyl-d14	85		36 - 134	02/02/16 16:29	02/04/16 05:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Arsenic	14		0.55	0.25	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Barium	27		0.55	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Beryllium	0.46		0.22	0.047	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Boron	9.7		2.7	0.38	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Calcium	74000	B	110	35	mg/Kg	☼	02/03/16 15:19	02/10/16 21:01	10
Chromium	11	B	0.55	0.094	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Cobalt	14		0.27	0.062	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Copper	32		0.55	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Iron	21000	B	11	4.2	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Lead	19		0.27	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Magnesium	37000	B	5.5	2.2	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Manganese	530		0.55	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Nickel	36		0.55	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Potassium	1700		27	4.5	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Selenium	0.55	B	0.55	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Sodium	220		55	7.2	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Thallium	0.87		0.55	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Vanadium	12		0.27	0.080	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1
Zinc	55		1.1	0.35	mg/Kg	☼	02/03/16 15:19	02/04/16 23:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:25	1
Boron	0.55		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Date Collected: 02/01/16 11:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:25	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:25	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:25	1
Manganese	1.6		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:25	1
Nickel	0.039		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:25	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:25	1
Zinc	0.038	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.21		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 19:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.200	0.200	SU			02/04/16 16:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/02/16 08:55	02/04/16 17:28	1
Dibromofluoromethane	104		75 - 120	02/02/16 08:55	02/04/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/02/16 08:55	02/04/16 17:28	1
Toluene-d8 (Surr)	102		75 - 122	02/02/16 08:55	02/04/16 17:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4-Chloroaniline	<0.77 *		0.77	0.18	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Phenanthrene	0.065		0.038	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Anthracene	0.010 J		0.038	0.0064	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Fluoranthene	0.051		0.038	0.0071	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Pyrene	0.046		0.038	0.0076	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Benzo[a]anthracene	0.024 J		0.038	0.0052	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Benzo[b]fluoranthene	0.031	J	0.038	0.0083	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Benzo[k]fluoranthene	0.016	J	0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Benzo[a]pyrene	0.021	J	0.038	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		25 - 110				02/02/16 16:29	02/04/16 05:42	1
Phenol-d5	83		31 - 110				02/02/16 16:29	02/04/16 05:42	1
Nitrobenzene-d5	83		25 - 115				02/02/16 16:29	02/04/16 05:42	1
2-Fluorobiphenyl	78		25 - 119				02/02/16 16:29	02/04/16 05:42	1
2,4,6-Tribromophenol	47		35 - 137				02/02/16 16:29	02/04/16 05:42	1
Terphenyl-d14	90		36 - 134				02/02/16 16:29	02/04/16 05:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Arsenic	7.7		0.57	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Barium	43		0.57	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Beryllium	0.56		0.23	0.049	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Boron	7.2		2.9	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Cadmium	0.22		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Calcium	48000	B	110	37	mg/Kg	☼	02/03/16 15:19	02/10/16 21:05	10
Chromium	14	B	0.57	0.098	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Cobalt	11		0.29	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Copper	28		0.57	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Iron	17000	B	11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Lead	77		0.29	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Magnesium	22000	B	5.7	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Manganese	460		0.57	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Nickel	29		0.57	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Potassium	1600		29	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Selenium	0.29	J B	0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Sodium	580		57	7.5	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Vanadium	16		0.29	0.083	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1
Zinc	77		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 23:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:32	1
Boron	0.59		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:32	1
Cobalt	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:32	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:32	1
Manganese	1.5		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:32	1
Nickel	0.015	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:32	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:32	1
Zinc	0.15	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.39		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 19:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0091	mg/Kg	☼	02/03/16 09:20	02/03/16 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			02/04/16 16:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/02/16 08:55	02/04/16 17:53	1
Dibromofluoromethane	105		75 - 120	02/02/16 08:55	02/04/16 17:53	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/02/16 08:55	02/04/16 17:53	1
Toluene-d8 (Surr)	102		75 - 122	02/02/16 08:55	02/04/16 17:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4-Chloroaniline	<0.73 *		0.73	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Phenanthrene	0.014	J	0.036	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Fluoranthene	0.027	J	0.036	0.0068	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Pyrene	0.021	J	0.036	0.0072	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Benzo[a]anthracene	0.0093	J	0.036	0.0049	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.036	0.0099	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Benzo[b]fluoranthene	0.023	J	0.036	0.0079	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 06:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		25 - 110				02/02/16 16:29	02/04/16 06:11	1
Phenol-d5	86		31 - 110				02/02/16 16:29	02/04/16 06:11	1
Nitrobenzene-d5	81		25 - 115				02/02/16 16:29	02/04/16 06:11	1
2-Fluorobiphenyl	77		25 - 119				02/02/16 16:29	02/04/16 06:11	1
2,4,6-Tribromophenol	66		35 - 137				02/02/16 16:29	02/04/16 06:11	1
Terphenyl-d14	87		36 - 134				02/02/16 16:29	02/04/16 06:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Arsenic	7.7		0.56	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Barium	32		0.56	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Beryllium	0.32		0.22	0.048	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Boron	4.6		2.8	0.39	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Cadmium	0.096	J	0.11	0.032	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Calcium	46000	B	110	36	mg/Kg	☼	02/03/16 15:19	02/10/16 21:09	10
Chromium	8.2	B	0.56	0.096	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Cobalt	8.6		0.28	0.063	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Copper	34		0.56	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Iron	13000	B	11	4.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Lead	12		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Magnesium	26000	B	5.6	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Manganese	520		0.56	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Nickel	21		0.56	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Potassium	710		28	4.5	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Selenium	0.29	J B	0.56	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Sodium	490		56	7.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Thallium	0.37	J	0.56	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Vanadium	13		0.28	0.081	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1
Zinc	57		1.1	0.35	mg/Kg	☼	02/03/16 15:19	02/04/16 23:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:38	1
Boron	0.074	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 88.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:38	1
Cobalt	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:38	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:38	1
Manganese	3.1		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:38	1
Nickel	0.018	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:38	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:38	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:38	1
Zinc	0.028	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.051		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 19:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0088	mg/Kg	☼	02/03/16 09:20	02/03/16 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			02/05/16 13:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Date Collected: 02/01/16 15:05

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/02/16 08:55	02/04/16 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	02/02/16 08:55	02/04/16 18:19	1
Dibromofluoromethane	106		75 - 120	02/02/16 08:55	02/04/16 18:19	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	02/02/16 08:55	02/04/16 18:19	1
Toluene-d8 (Surr)	105		75 - 122	02/02/16 08:55	02/04/16 18:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Date Collected: 02/01/16 15:05

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4-Chloroaniline	<0.77 *		0.77	0.18	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.30	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Phenanthrene	0.0094	J	0.038	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Pyrene	0.0077	J	0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Benzo[a]anthracene	0.0051	J	0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Date Collected: 02/01/16 15:05

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110				02/02/16 16:29	02/04/16 06:40	1
Phenol-d5	84		31 - 110				02/02/16 16:29	02/04/16 06:40	1
Nitrobenzene-d5	76		25 - 115				02/02/16 16:29	02/04/16 06:40	1
2-Fluorobiphenyl	73		25 - 119				02/02/16 16:29	02/04/16 06:40	1
2,4,6-Tribromophenol	46		35 - 137				02/02/16 16:29	02/04/16 06:40	1
Terphenyl-d14	83		36 - 134				02/02/16 16:29	02/04/16 06:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Arsenic	4.3		0.58	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Barium	53		0.58	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Beryllium	0.67		0.23	0.050	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Boron	12		2.9	0.40	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Calcium	55000	B	120	37	mg/Kg	☼	02/03/16 15:19	02/10/16 21:21	10
Chromium	20	B	0.58	0.099	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Cobalt	14		0.29	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Copper	17		0.58	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Iron	19000	B	12	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Lead	11		0.29	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Magnesium	23000	B	5.8	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Manganese	320		0.58	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Nickel	36		0.58	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Potassium	3000		29	4.7	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Selenium	0.57	J B	0.58	0.29	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Sodium	380		58	7.6	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Vanadium	19		0.29	0.084	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1
Zinc	55		1.2	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 23:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 00:45	1
Boron	0.062	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 00:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Date Collected: 02/01/16 15:05

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 00:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:45	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:45	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 00:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 00:45	1
Manganese	2.4		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:45	1
Nickel	0.031		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 00:45	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 00:45	1
Zinc	0.025	J	0.50	0.020	mg/L		02/04/16 08:30	02/05/16 00:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.040		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 19:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			02/05/16 13:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,1-Dichloroethene	<0.0045		0.0045	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/02/16 08:55	02/04/16 18:44	1
Dibromofluoromethane	104		75 - 120	02/02/16 08:55	02/04/16 18:44	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/02/16 08:55	02/04/16 18:44	1
Toluene-d8 (Surr)	103		75 - 122	02/02/16 08:55	02/04/16 18:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4-Chloroaniline	<0.81	*	0.81	0.19	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Phenanthrene	0.021	J	0.040	0.0056	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Benzo[a]anthracene	0.0054	J	0.040	0.0054	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/02/16 16:29	02/04/16 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	02/02/16 16:29	02/04/16 07:09	1
Phenol-d5	64		31 - 110	02/02/16 16:29	02/04/16 07:09	1
Nitrobenzene-d5	67		25 - 115	02/02/16 16:29	02/04/16 07:09	1
2-Fluorobiphenyl	62		25 - 119	02/02/16 16:29	02/04/16 07:09	1
2,4,6-Tribromophenol	43		35 - 137	02/02/16 16:29	02/04/16 07:09	1
Terphenyl-d14	76		36 - 134	02/02/16 16:29	02/04/16 07:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Arsenic	5.3		0.56	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Barium	40		0.56	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Beryllium	0.61		0.22	0.048	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Boron	14		2.8	0.39	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Calcium	79000	B	110	36	mg/Kg	☼	02/03/16 15:19	02/10/16 21:26	10
Chromium	16	B	0.56	0.096	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Cobalt	12		0.28	0.063	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Copper	20		0.56	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Iron	17000	B	11	4.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Lead	12		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Magnesium	35000	B	5.6	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Manganese	430		0.56	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Nickel	31		0.56	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Potassium	2800		28	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Selenium	0.34	J B	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Sodium	250		56	7.4	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Vanadium	18		0.28	0.082	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1
Zinc	48		1.1	0.35	mg/Kg	☼	02/03/16 15:19	02/04/16 23:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 01:08	1
Boron	0.052	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Cobalt	0.014	J	0.025	0.010	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Iron	<0.40		0.40	0.20	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Manganese	2.1		0.025	0.010	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Nickel	0.032		0.025	0.010	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Silver	<0.025		0.025	0.010	mg/L	-	02/04/16 08:30	02/05/16 01:08	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/04/16 08:30	02/05/16 01:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.081		0.025	0.010	mg/L	-	02/03/16 15:00	02/04/16 19:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/04/16 08:30	02/04/16 21:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/04/16 08:30	02/04/16 21:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/04/16 13:00	02/05/16 11:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0093	mg/Kg	☼	02/03/16 09:20	02/03/16 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU	-		02/05/16 13:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Date Collected: 02/01/16 15:35

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.040		0.018	0.0035	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,1,1,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	02/02/16 08:55	02/04/16 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/02/16 08:55	02/04/16 19:08	1
Dibromofluoromethane	105		75 - 120	02/02/16 08:55	02/04/16 19:08	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/02/16 08:55	02/04/16 19:08	1
Toluene-d8 (Surr)	100		75 - 122	02/02/16 08:55	02/04/16 19:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Date Collected: 02/01/16 15:35

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Pyrene	<0.039		0.039	0.0078	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Benzo[a]anthracene	0.0053	J	0.039	0.0053	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Date Collected: 02/01/16 15:35

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 16:37	02/11/16 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	02/04/16 16:37	02/11/16 16:53	1
Phenol-d5	65		31 - 110	02/04/16 16:37	02/11/16 16:53	1
Nitrobenzene-d5	60		25 - 115	02/04/16 16:37	02/11/16 16:53	1
2-Fluorobiphenyl	57		25 - 119	02/04/16 16:37	02/11/16 16:53	1
2,4,6-Tribromophenol	59		35 - 137	02/04/16 16:37	02/11/16 16:53	1
Terphenyl-d14	69		36 - 134	02/04/16 16:37	02/11/16 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Arsenic	3.9		0.56	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Barium	90		0.56	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Boron	6.2		2.8	0.39	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Cadmium	0.14		0.11	0.033	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Calcium	15000	B	11	3.6	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Chromium	17	B	0.56	0.097	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Cobalt	15		0.28	0.064	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Copper	19		0.56	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Iron	15000	B	11	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Lead	17		0.28	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Magnesium	9600	B	5.6	2.3	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Manganese	410		0.56	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Nickel	31		0.56	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Potassium	1500		28	4.6	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Selenium	0.40	J B	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Sodium	2300		56	7.5	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Thallium	0.30	J	0.56	0.28	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Vanadium	23		0.28	0.082	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1
Zinc	57		1.1	0.36	mg/Kg	☼	02/03/16 15:19	02/04/16 23:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 01:15	1
Boron	0.066	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Date Collected: 02/01/16 15:35

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 01:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:15	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:15	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 01:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 01:15	1
Manganese	4.5		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:15	1
Nickel	0.013	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 01:15	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:15	1
Zinc	<0.50		0.50	0.020	mg/L		02/04/16 08:30	02/05/16 01:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.75		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 19:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0093	mg/Kg	☼	02/03/16 09:20	02/03/16 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			02/05/16 13:26	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Date Collected: 02/01/16 15:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,1-Dichloroethene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00082	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Trichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/02/16 08:55	02/12/16 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/02/16 08:55	02/12/16 12:31	1
Dibromofluoromethane	99		75 - 120	02/02/16 08:55	02/12/16 12:31	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/02/16 08:55	02/12/16 12:31	1
Toluene-d8 (Surr)	102		75 - 122	02/02/16 08:55	02/12/16 12:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Date Collected: 02/01/16 15:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4-Chloroaniline	<0.78	*	0.78	0.18	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Fluorene	<0.039		0.039	0.0054	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Phenanthrene	0.019	J	0.039	0.0054	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Fluoranthene	0.010	J	0.039	0.0072	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Pyrene	0.017	J	0.039	0.0077	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Benzo[a]anthracene	0.0069	J	0.039	0.0052	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Date Collected: 02/01/16 15:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/10/16 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	34		25 - 110	02/02/16 16:29	02/10/16 17:38	1
Phenol-d5	59		31 - 110	02/02/16 16:29	02/10/16 17:38	1
Nitrobenzene-d5	28		25 - 115	02/02/16 16:29	02/10/16 17:38	1
2-Fluorobiphenyl	58		25 - 119	02/02/16 16:29	02/10/16 17:38	1
2,4,6-Tribromophenol	70		35 - 137	02/02/16 16:29	02/10/16 17:38	1
Terphenyl-d14	99		36 - 134	02/02/16 16:29	02/10/16 17:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Arsenic	7.5		0.53	0.25	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Barium	47		0.53	0.098	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Beryllium	0.58		0.21	0.046	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Boron	8.7		2.7	0.37	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Cadmium	0.22		0.11	0.031	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Calcium	58000	B	110	34	mg/Kg	☼	02/03/16 15:19	02/10/16 21:30	10
Chromium	15	B	0.53	0.092	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Cobalt	11		0.27	0.060	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Copper	25		0.53	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Iron	17000	B	11	4.1	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Lead	34		0.27	0.13	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Magnesium	25000	B	5.3	2.2	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Manganese	300		0.53	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Nickel	30		0.53	0.14	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Potassium	1900		27	4.4	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Selenium	0.52	J B	0.53	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Sodium	200		53	7.1	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Vanadium	18		0.27	0.078	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1
Zinc	73		1.1	0.34	mg/Kg	☼	02/03/16 15:19	02/04/16 23:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 01:21	1
Boron	0.054	J	0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Date Collected: 02/01/16 15:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 01:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:21	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 01:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 01:21	1
Manganese	0.22		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 01:21	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:21	1
Zinc	<0.50		0.50	0.020	mg/L		02/04/16 08:30	02/05/16 01:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 20:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0094	mg/Kg	☼	02/03/16 09:20	02/03/16 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			02/05/16 13:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.049		0.017	0.0033	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
2-Butanone (MEK)	0.0049		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/02/16 08:55	02/12/16 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/02/16 08:55	02/12/16 12:56	1
Dibromofluoromethane	103		75 - 120	02/02/16 08:55	02/12/16 12:56	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	02/02/16 08:55	02/12/16 12:56	1
Toluene-d8 (Surr)	101		75 - 122	02/02/16 08:55	02/12/16 12:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4-Chloroaniline	<0.78 *		0.78	0.18	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Benzof[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/02/16 16:29	02/10/16 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	02/02/16 16:29	02/10/16 18:07	1
Phenol-d5	72		31 - 110	02/02/16 16:29	02/10/16 18:07	1
Nitrobenzene-d5	67		25 - 115	02/02/16 16:29	02/10/16 18:07	1
2-Fluorobiphenyl	64		25 - 119	02/02/16 16:29	02/10/16 18:07	1
2,4,6-Tribromophenol	56		35 - 137	02/02/16 16:29	02/10/16 18:07	1
Terphenyl-d14	89		36 - 134	02/02/16 16:29	02/10/16 18:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Arsenic	4.5		0.59	0.27	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Barium	72		0.59	0.11	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Beryllium	0.78		0.24	0.051	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Boron	9.5		2.9	0.41	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Calcium	13000	B	12	3.8	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Chromium	23	B	0.59	0.10	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Cobalt	14		0.29	0.067	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Copper	22		0.59	0.13	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Iron	22000	B	12	4.5	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Lead	12		0.29	0.15	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Magnesium	11000	B	5.9	2.4	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Manganese	210		0.59	0.12	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Nickel	40		0.59	0.16	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Potassium	2800		29	4.8	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Sodium	440		59	7.8	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Thallium	0.65		0.59	0.29	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Vanadium	21		0.29	0.086	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1
Zinc	69		1.2	0.37	mg/Kg	☼	02/03/16 15:19	02/04/16 23:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/05/16 01:28	1
Boron	<0.50		0.50	0.050	mg/L		02/04/16 08:30	02/05/16 01:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/05/16 01:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:28	1
Cobalt	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:28	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/05/16 01:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/05/16 01:28	1
Manganese	2.5		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:28	1
Nickel	0.017	J	0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/05/16 01:28	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/05/16 01:28	1
Zinc	<0.50		0.50	0.020	mg/L		02/04/16 08:30	02/05/16 01:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.084		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 20:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 21:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 21:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 11:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.010	mg/Kg	☼	02/03/16 09:20	02/03/16 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/05/16 13:35	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

GC/MS VOA

Prep Batch: 321672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	5035	
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	5035	
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	5035	
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	5035	
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	5035	
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	5035	
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	5035	
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	5035	
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	5035	
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	5035	
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	5035	
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	5035	
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	5035	
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	5035	
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	5035	
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	5035	
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	5035	
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	5035	
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	5035	
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	5035	

Analysis Batch: 321854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	8260B	321672
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	8260B	321672
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	8260B	321672
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	8260B	321672
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	8260B	321672
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	8260B	321672
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	8260B	321672
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	8260B	321672
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	8260B	321672
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	8260B	321672
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	8260B	321672
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	8260B	321672
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	8260B	321672
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	8260B	321672
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	8260B	321672
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	8260B	321672
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	8260B	321672
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	8260B	321672
LCS 500-321854/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-321854/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 322609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	8260B	321672
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	8260B	321672
LCS 500-322609/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-322609/5	Method Blank	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

GC/MS Semi VOA

Prep Batch: 321625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	3541	
500-107010-1 MS	2746-01-B53 (0-7)	Total/NA	Solid	3541	
500-107010-1 MSD	2746-01-B53 (0-7)	Total/NA	Solid	3541	
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	3541	
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	3541	
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	3541	
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	3541	
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	3541	
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	3541	
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	3541	
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	3541	
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	3541	
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	3541	
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	3541	
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	3541	
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	3541	
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	3541	
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	3541	
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	3541	
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	3541	
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	3541	
LCS 500-321625/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-321625/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 321823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	8270D	321625
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	8270D	321625
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	8270D	321625
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	8270D	321625
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	8270D	321625
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	8270D	321625
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	8270D	321625
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	8270D	321625
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	8270D	321625
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	8270D	321625
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	8270D	321625
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	8270D	321625
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	8270D	321625
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	8270D	321625
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	8270D	321625
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	8270D	321625
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	8270D	321625
LCS 500-321625/2-A	Lab Control Sample	Total/NA	Solid	8270D	321625
MB 500-321625/1-A	Method Blank	Total/NA	Solid	8270D	321625

Prep Batch: 321962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	3541	
LCS 500-321962/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-321962/1-A	Method Blank	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Analysis Batch: 322321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1 MS	2746-01-B53 (0-7)	Total/NA	Solid	8270D	321625
500-107010-1 MSD	2746-01-B53 (0-7)	Total/NA	Solid	8270D	321625
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	8270D	321625
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	8270D	321625

Analysis Batch: 322443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	8270D	321962
LCS 500-321962/2-A	Lab Control Sample	Total/NA	Solid	8270D	321962
MB 500-321962/1-A	Method Blank	Total/NA	Solid	8270D	321962

Metals

Leach Batch: 321614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	SPLP East	Solid	1312	
500-107010-2	2746-01-B52 (0-6)	SPLP East	Solid	1312	
500-107010-3	2746-01-B52 (6-12)	SPLP East	Solid	1312	
500-107010-4	2746-01-B51 (0-7)	SPLP East	Solid	1312	
500-107010-5	2746-01-B51 (7-14)	SPLP East	Solid	1312	
500-107010-5 DU	2746-01-B51 (7-14)	SPLP East	Solid	1312	
500-107010-5 MS	2746-01-B51 (7-14)	SPLP East	Solid	1312	
500-107010-6	2746-01-B50 (0-6.5)	SPLP East	Solid	1312	
500-107010-7	2746-01-B50 (6.5-13)	SPLP East	Solid	1312	
500-107010-8	2746-01-B49 (0-6.5)	SPLP East	Solid	1312	
500-107010-9	2746-01-B49 (6.5-13)	SPLP East	Solid	1312	
500-107010-10	2746-01-B49 (6.5-13)D	SPLP East	Solid	1312	
500-107010-11	2746-02-B01 (0-6)	SPLP East	Solid	1312	
500-107010-12	2746-02-B01 (6-12)	SPLP East	Solid	1312	
500-107010-13	2746-02-B01 (12-18)	SPLP East	Solid	1312	
500-107010-14	2746-01-B61 (0-6)	SPLP East	Solid	1312	
500-107010-15	2746-01-B62 (0-7)	SPLP East	Solid	1312	
500-107010-16	2746-01-B62 (7-14)	SPLP East	Solid	1312	
500-107010-17	2746-01-B62 (14-20)	SPLP East	Solid	1312	
500-107010-18	2746-01-B63 (0-8)	SPLP East	Solid	1312	
500-107010-19	2746-01-B64 (0-8)	SPLP East	Solid	1312	
500-107010-20	2746-01-B66 (0-8)	SPLP East	Solid	1312	
LB 500-321614/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 321615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	7471B	
500-107010-1 DU	2746-01-B53 (0-7)	Total/NA	Solid	7471B	
500-107010-1 MS	2746-01-B53 (0-7)	Total/NA	Solid	7471B	
500-107010-1 MSD	2746-01-B53 (0-7)	Total/NA	Solid	7471B	
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	7471B	
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	7471B	
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	7471B	
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	7471B	
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	7471B	
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	7471B	
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	7471B	
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Prep Batch: 321615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	7471B	
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	7471B	
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	7471B	
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	7471B	
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	7471B	
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	7471B	
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	7471B	
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	7471B	
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	7471B	
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	7471B	
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	7471B	
LCS 500-321615/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-321615/12-A	Method Blank	Total/NA	Solid	7471B	

Leach Batch: 321758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	TCLP	Solid	1311	
500-107010-2	2746-01-B52 (0-6)	TCLP	Solid	1311	
500-107010-2 DU	2746-01-B52 (0-6)	TCLP	Solid	1311	
500-107010-2 MSD	2746-01-B52 (0-6)	TCLP	Solid	1311	
500-107010-3	2746-01-B52 (6-12)	TCLP	Solid	1311	
500-107010-4	2746-01-B51 (0-7)	TCLP	Solid	1311	
500-107010-5	2746-01-B51 (7-14)	TCLP	Solid	1311	
500-107010-6	2746-01-B50 (0-6.5)	TCLP	Solid	1311	
500-107010-6 DU	2746-01-B50 (0-6.5)	TCLP	Solid	1311	
500-107010-6 MS	2746-01-B50 (0-6.5)	TCLP	Solid	1311	
500-107010-7	2746-01-B50 (6.5-13)	TCLP	Solid	1311	
500-107010-8	2746-01-B49 (0-6.5)	TCLP	Solid	1311	
500-107010-9	2746-01-B49 (6.5-13)	TCLP	Solid	1311	
500-107010-10	2746-01-B49 (6.5-13)D	TCLP	Solid	1311	
500-107010-11	2746-02-B01 (0-6)	TCLP	Solid	1311	
500-107010-12	2746-02-B01 (6-12)	TCLP	Solid	1311	
500-107010-13	2746-02-B01 (12-18)	TCLP	Solid	1311	
500-107010-14	2746-01-B61 (0-6)	TCLP	Solid	1311	
500-107010-15	2746-01-B62 (0-7)	TCLP	Solid	1311	
500-107010-16	2746-01-B62 (7-14)	TCLP	Solid	1311	
500-107010-17	2746-01-B62 (14-20)	TCLP	Solid	1311	
500-107010-18	2746-01-B63 (0-8)	TCLP	Solid	1311	
500-107010-19	2746-01-B64 (0-8)	TCLP	Solid	1311	
500-107010-20	2746-01-B66 (0-8)	TCLP	Solid	1311	
LB 500-321758/1-B	Method Blank	TCLP	Solid	1311	
LB 500-321758/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 321776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	SPLP East	Solid	3010A	321614
500-107010-2	2746-01-B52 (0-6)	SPLP East	Solid	3010A	321614
500-107010-3	2746-01-B52 (6-12)	SPLP East	Solid	3010A	321614
500-107010-4	2746-01-B51 (0-7)	SPLP East	Solid	3010A	321614
500-107010-5	2746-01-B51 (7-14)	SPLP East	Solid	3010A	321614
500-107010-5 DU	2746-01-B51 (7-14)	SPLP East	Solid	3010A	321614

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Prep Batch: 321776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-5 MS	2746-01-B51 (7-14)	SPLP East	Solid	3010A	321614
500-107010-6	2746-01-B50 (0-6.5)	SPLP East	Solid	3010A	321614
500-107010-7	2746-01-B50 (6.5-13)	SPLP East	Solid	3010A	321614
500-107010-8	2746-01-B49 (0-6.5)	SPLP East	Solid	3010A	321614
500-107010-9	2746-01-B49 (6.5-13)	SPLP East	Solid	3010A	321614
500-107010-10	2746-01-B49 (6.5-13)D	SPLP East	Solid	3010A	321614
500-107010-11	2746-02-B01 (0-6)	SPLP East	Solid	3010A	321614
500-107010-12	2746-02-B01 (6-12)	SPLP East	Solid	3010A	321614
500-107010-13	2746-02-B01 (12-18)	SPLP East	Solid	3010A	321614
500-107010-14	2746-01-B61 (0-6)	SPLP East	Solid	3010A	321614
500-107010-15	2746-01-B62 (0-7)	SPLP East	Solid	3010A	321614
500-107010-16	2746-01-B62 (7-14)	SPLP East	Solid	3010A	321614
500-107010-17	2746-01-B62 (14-20)	SPLP East	Solid	3010A	321614
500-107010-18	2746-01-B63 (0-8)	SPLP East	Solid	3010A	321614
500-107010-19	2746-01-B64 (0-8)	SPLP East	Solid	3010A	321614
500-107010-20	2746-01-B66 (0-8)	SPLP East	Solid	3010A	321614
LB 500-321614/1-B	Method Blank	SPLP East	Solid	3010A	321614
LCS 500-321776/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 321778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	3050B	
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	3050B	
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	3050B	
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	3050B	
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	3050B	
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	3050B	
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	3050B	
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	3050B	
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	3050B	
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	3050B	
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	3050B	
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	3050B	
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	3050B	
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	3050B	
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	3050B	
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	3050B	
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	3050B	
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	3050B	
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	3050B	
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	3050B	
LCS 500-321778/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-321778/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 321813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	7471B	321615
500-107010-1 DU	2746-01-B53 (0-7)	Total/NA	Solid	7471B	321615
500-107010-1 MS	2746-01-B53 (0-7)	Total/NA	Solid	7471B	321615
500-107010-1 MSD	2746-01-B53 (0-7)	Total/NA	Solid	7471B	321615
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	7471B	321615

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Analysis Batch: 321813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	7471B	321615
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	7471B	321615
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	7471B	321615
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	7471B	321615
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	7471B	321615
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	7471B	321615
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	7471B	321615
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	7471B	321615
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	7471B	321615
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	7471B	321615
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	7471B	321615
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	7471B	321615
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	7471B	321615
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	7471B	321615
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	7471B	321615
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	7471B	321615
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	7471B	321615
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	7471B	321615
LCS 500-321615/13-A	Lab Control Sample	Total/NA	Solid	7471B	321615
MB 500-321615/12-A	Method Blank	Total/NA	Solid	7471B	321615

Prep Batch: 321889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	TCLP	Solid	3010A	321758
500-107010-2	2746-01-B52 (0-6)	TCLP	Solid	3010A	321758
500-107010-3	2746-01-B52 (6-12)	TCLP	Solid	3010A	321758
500-107010-4	2746-01-B51 (0-7)	TCLP	Solid	3010A	321758
500-107010-5	2746-01-B51 (7-14)	TCLP	Solid	3010A	321758
500-107010-6	2746-01-B50 (0-6.5)	TCLP	Solid	3010A	321758
500-107010-6 DU	2746-01-B50 (0-6.5)	TCLP	Solid	3010A	321758
500-107010-6 MS	2746-01-B50 (0-6.5)	TCLP	Solid	3010A	321758
500-107010-7	2746-01-B50 (6.5-13)	TCLP	Solid	3010A	321758
500-107010-8	2746-01-B49 (0-6.5)	TCLP	Solid	3010A	321758
500-107010-9	2746-01-B49 (6.5-13)	TCLP	Solid	3010A	321758
500-107010-10	2746-01-B49 (6.5-13)D	TCLP	Solid	3010A	321758
500-107010-11	2746-02-B01 (0-6)	TCLP	Solid	3010A	321758
500-107010-12	2746-02-B01 (6-12)	TCLP	Solid	3010A	321758
500-107010-13	2746-02-B01 (12-18)	TCLP	Solid	3010A	321758
500-107010-14	2746-01-B61 (0-6)	TCLP	Solid	3010A	321758
500-107010-15	2746-01-B62 (0-7)	TCLP	Solid	3010A	321758
500-107010-16	2746-01-B62 (7-14)	TCLP	Solid	3010A	321758
500-107010-17	2746-01-B62 (14-20)	TCLP	Solid	3010A	321758
500-107010-18	2746-01-B63 (0-8)	TCLP	Solid	3010A	321758
500-107010-19	2746-01-B64 (0-8)	TCLP	Solid	3010A	321758
500-107010-20	2746-01-B66 (0-8)	TCLP	Solid	3010A	321758
LB 500-321758/1-B	Method Blank	TCLP	Solid	3010A	321758
LCS 500-321889/2-A	Lab Control Sample	Total/NA	Solid	3010A	321758

Prep Batch: 321913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	TCLP	Solid	7470A	321758

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Prep Batch: 321913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-2	2746-01-B52 (0-6)	TCLP	Solid	7470A	321758
500-107010-2 DU	2746-01-B52 (0-6)	TCLP	Solid	7470A	321758
500-107010-2 MSD	2746-01-B52 (0-6)	TCLP	Solid	7470A	321758
500-107010-3	2746-01-B52 (6-12)	TCLP	Solid	7470A	321758
500-107010-4	2746-01-B51 (0-7)	TCLP	Solid	7470A	321758
500-107010-5	2746-01-B51 (7-14)	TCLP	Solid	7470A	321758
500-107010-6	2746-01-B50 (0-6.5)	TCLP	Solid	7470A	321758
500-107010-7	2746-01-B50 (6.5-13)	TCLP	Solid	7470A	321758
500-107010-8	2746-01-B49 (0-6.5)	TCLP	Solid	7470A	321758
500-107010-9	2746-01-B49 (6.5-13)	TCLP	Solid	7470A	321758
500-107010-10	2746-01-B49 (6.5-13)D	TCLP	Solid	7470A	321758
500-107010-11	2746-02-B01 (0-6)	TCLP	Solid	7470A	321758
500-107010-12	2746-02-B01 (6-12)	TCLP	Solid	7470A	321758
500-107010-13	2746-02-B01 (12-18)	TCLP	Solid	7470A	321758
500-107010-14	2746-01-B61 (0-6)	TCLP	Solid	7470A	321758
500-107010-15	2746-01-B62 (0-7)	TCLP	Solid	7470A	321758
500-107010-16	2746-01-B62 (7-14)	TCLP	Solid	7470A	321758
500-107010-17	2746-01-B62 (14-20)	TCLP	Solid	7470A	321758
500-107010-18	2746-01-B63 (0-8)	TCLP	Solid	7470A	321758
500-107010-19	2746-01-B64 (0-8)	TCLP	Solid	7470A	321758
500-107010-20	2746-01-B66 (0-8)	TCLP	Solid	7470A	321758
LB 500-321758/1-C	Method Blank	TCLP	Solid	7470A	321758
LCS 500-321913/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-321913/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 322045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	SPLP East	Solid	6010B	321776
500-107010-1	2746-01-B53 (0-7)	TCLP	Solid	6010B	321889
500-107010-2	2746-01-B52 (0-6)	SPLP East	Solid	6010B	321776
500-107010-2	2746-01-B52 (0-6)	TCLP	Solid	6010B	321889
500-107010-3	2746-01-B52 (6-12)	SPLP East	Solid	6010B	321776
500-107010-3	2746-01-B52 (6-12)	TCLP	Solid	6010B	321889
500-107010-4	2746-01-B51 (0-7)	SPLP East	Solid	6010B	321776
500-107010-4	2746-01-B51 (0-7)	TCLP	Solid	6010B	321889
500-107010-5	2746-01-B51 (7-14)	SPLP East	Solid	6010B	321776
500-107010-5	2746-01-B51 (7-14)	TCLP	Solid	6010B	321889
500-107010-5 DU	2746-01-B51 (7-14)	SPLP East	Solid	6010B	321776
500-107010-5 MS	2746-01-B51 (7-14)	SPLP East	Solid	6010B	321776
500-107010-6	2746-01-B50 (0-6.5)	SPLP East	Solid	6010B	321776
500-107010-6	2746-01-B50 (0-6.5)	TCLP	Solid	6010B	321889
500-107010-6 DU	2746-01-B50 (0-6.5)	TCLP	Solid	6010B	321889
500-107010-6 MS	2746-01-B50 (0-6.5)	TCLP	Solid	6010B	321889
500-107010-7	2746-01-B50 (6.5-13)	SPLP East	Solid	6010B	321776
500-107010-7	2746-01-B50 (6.5-13)	TCLP	Solid	6010B	321889
500-107010-8	2746-01-B49 (0-6.5)	SPLP East	Solid	6010B	321776
500-107010-8	2746-01-B49 (0-6.5)	TCLP	Solid	6010B	321889
500-107010-9	2746-01-B49 (6.5-13)	SPLP East	Solid	6010B	321776
500-107010-9	2746-01-B49 (6.5-13)	TCLP	Solid	6010B	321889
500-107010-10	2746-01-B49 (6.5-13)D	SPLP East	Solid	6010B	321776
500-107010-10	2746-01-B49 (6.5-13)D	TCLP	Solid	6010B	321889

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Analysis Batch: 322045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-11	2746-02-B01 (0-6)	SPLP East	Solid	6010B	321776
500-107010-11	2746-02-B01 (0-6)	TCLP	Solid	6010B	321889
500-107010-12	2746-02-B01 (6-12)	SPLP East	Solid	6010B	321776
500-107010-12	2746-02-B01 (6-12)	TCLP	Solid	6010B	321889
500-107010-13	2746-02-B01 (12-18)	SPLP East	Solid	6010B	321776
500-107010-13	2746-02-B01 (12-18)	TCLP	Solid	6010B	321889
500-107010-14	2746-01-B61 (0-6)	SPLP East	Solid	6010B	321776
500-107010-14	2746-01-B61 (0-6)	TCLP	Solid	6010B	321889
500-107010-15	2746-01-B62 (0-7)	SPLP East	Solid	6010B	321776
500-107010-15	2746-01-B62 (0-7)	TCLP	Solid	6010B	321889
500-107010-16	2746-01-B62 (7-14)	SPLP East	Solid	6010B	321776
500-107010-16	2746-01-B62 (7-14)	TCLP	Solid	6010B	321889
500-107010-17	2746-01-B62 (14-20)	SPLP East	Solid	6010B	321776
500-107010-17	2746-01-B62 (14-20)	TCLP	Solid	6010B	321889
500-107010-18	2746-01-B63 (0-8)	SPLP East	Solid	6010B	321776
500-107010-18	2746-01-B63 (0-8)	TCLP	Solid	6010B	321889
500-107010-19	2746-01-B64 (0-8)	SPLP East	Solid	6010B	321776
500-107010-19	2746-01-B64 (0-8)	TCLP	Solid	6010B	321889
500-107010-20	2746-01-B66 (0-8)	SPLP East	Solid	6010B	321776
500-107010-20	2746-01-B66 (0-8)	TCLP	Solid	6010B	321889
LB 500-321614/1-B	Method Blank	SPLP East	Solid	6010B	321776
LB 500-321758/1-B	Method Blank	TCLP	Solid	6010B	321889
LCS 500-321776/2-A	Lab Control Sample	Total/NA	Solid	6010B	321776
LCS 500-321889/2-A	Lab Control Sample	Total/NA	Solid	6010B	321889

Analysis Batch: 322048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	6010B	321778
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	6010B	321778
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	6010B	321778
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	6010B	321778
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	6010B	321778
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	6010B	321778
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	6010B	321778
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	6010B	321778
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	6010B	321778
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	6010B	321778
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	6010B	321778
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	6010B	321778
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	6010B	321778
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	6010B	321778
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	6010B	321778
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	6010B	321778
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	6010B	321778
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	6010B	321778
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	6010B	321778
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	6010B	321778
LCS 500-321778/2-A	Lab Control Sample	Total/NA	Solid	6010B	321778
MB 500-321778/1-A	Method Blank	Total/NA	Solid	6010B	321778

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Analysis Batch: 322316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	TCLP	Solid	6020A	321889
500-107010-2	2746-01-B52 (0-6)	TCLP	Solid	6020A	321889
500-107010-3	2746-01-B52 (6-12)	TCLP	Solid	6020A	321889
500-107010-4	2746-01-B51 (0-7)	TCLP	Solid	6020A	321889
500-107010-5	2746-01-B51 (7-14)	TCLP	Solid	6020A	321889
500-107010-6	2746-01-B50 (0-6.5)	TCLP	Solid	6020A	321889
500-107010-6 DU	2746-01-B50 (0-6.5)	TCLP	Solid	6020A	321889
500-107010-6 MS	2746-01-B50 (0-6.5)	TCLP	Solid	6020A	321889
500-107010-7	2746-01-B50 (6.5-13)	TCLP	Solid	6020A	321889
500-107010-8	2746-01-B49 (0-6.5)	TCLP	Solid	6020A	321889
500-107010-9	2746-01-B49 (6.5-13)	TCLP	Solid	6020A	321889
500-107010-10	2746-01-B49 (6.5-13)D	TCLP	Solid	6020A	321889
500-107010-11	2746-02-B01 (0-6)	TCLP	Solid	6020A	321889
500-107010-12	2746-02-B01 (6-12)	TCLP	Solid	6020A	321889
500-107010-13	2746-02-B01 (12-18)	TCLP	Solid	6020A	321889
500-107010-14	2746-01-B61 (0-6)	TCLP	Solid	6020A	321889
500-107010-15	2746-01-B62 (0-7)	TCLP	Solid	6020A	321889
500-107010-16	2746-01-B62 (7-14)	TCLP	Solid	6020A	321889
500-107010-17	2746-01-B62 (14-20)	TCLP	Solid	6020A	321889
500-107010-18	2746-01-B63 (0-8)	TCLP	Solid	6020A	321889
500-107010-19	2746-01-B64 (0-8)	TCLP	Solid	6020A	321889
500-107010-20	2746-01-B66 (0-8)	TCLP	Solid	6020A	321889
LB 500-321758/1-B	Method Blank	TCLP	Solid	6020A	321889
LCS 500-321889/2-A	Lab Control Sample	Total/NA	Solid	6020A	321889

Analysis Batch: 322410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	6010B	321778
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	6010B	321778
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	6010B	321778
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	6010B	321778
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	6010B	321778
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	6010B	321778
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	6010B	321778
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	6010B	321778
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	6010B	321778
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	6010B	321778
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	6010B	321778
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	6010B	321778
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	6010B	321778
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	6010B	321778
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	6010B	321778
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	6010B	321778
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	6010B	321778
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	6010B	321778

Analysis Batch: 322515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	TCLP	Solid	7470A	321913
500-107010-2	2746-01-B52 (0-6)	TCLP	Solid	7470A	321913
500-107010-2 DU	2746-01-B52 (0-6)	TCLP	Solid	7470A	321913

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Metals (Continued)

Analysis Batch: 322515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-2 MSD	2746-01-B52 (0-6)	TCLP	Solid	7470A	321913
500-107010-3	2746-01-B52 (6-12)	TCLP	Solid	7470A	321913
500-107010-4	2746-01-B51 (0-7)	TCLP	Solid	7470A	321913
500-107010-5	2746-01-B51 (7-14)	TCLP	Solid	7470A	321913
500-107010-6	2746-01-B50 (0-6.5)	TCLP	Solid	7470A	321913
500-107010-7	2746-01-B50 (6.5-13)	TCLP	Solid	7470A	321913
500-107010-8	2746-01-B49 (0-6.5)	TCLP	Solid	7470A	321913
500-107010-9	2746-01-B49 (6.5-13)	TCLP	Solid	7470A	321913
500-107010-10	2746-01-B49 (6.5-13)D	TCLP	Solid	7470A	321913
500-107010-11	2746-02-B01 (0-6)	TCLP	Solid	7470A	321913
500-107010-12	2746-02-B01 (6-12)	TCLP	Solid	7470A	321913
500-107010-13	2746-02-B01 (12-18)	TCLP	Solid	7470A	321913
500-107010-14	2746-01-B61 (0-6)	TCLP	Solid	7470A	321913
500-107010-15	2746-01-B62 (0-7)	TCLP	Solid	7470A	321913
500-107010-16	2746-01-B62 (7-14)	TCLP	Solid	7470A	321913
500-107010-17	2746-01-B62 (14-20)	TCLP	Solid	7470A	321913
500-107010-18	2746-01-B63 (0-8)	TCLP	Solid	7470A	321913
500-107010-19	2746-01-B64 (0-8)	TCLP	Solid	7470A	321913
500-107010-20	2746-01-B66 (0-8)	TCLP	Solid	7470A	321913
LB 500-321758/1-C	Method Blank	TCLP	Solid	7470A	321913
LCS 500-321913/13-A	Lab Control Sample	Total/NA	Solid	7470A	321913
MB 500-321913/12-A	Method Blank	Total/NA	Solid	7470A	321913

General Chemistry

Analysis Batch: 321701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	Moisture	
500-107010-1 DU	2746-01-B53 (0-7)	Total/NA	Solid	Moisture	
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	Moisture	
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	Moisture	
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	Moisture	
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	Moisture	
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	Moisture	
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	Moisture	
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	Moisture	
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	Moisture	
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	Moisture	
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	Moisture	
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	Moisture	
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	Moisture	
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	Moisture	
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	Moisture	
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	Moisture	
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	Moisture	
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	Moisture	
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	Moisture	
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

General Chemistry (Continued)

Analysis Batch: 322055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-1	2746-01-B53 (0-7)	Total/NA	Solid	9045D	
500-107010-2	2746-01-B52 (0-6)	Total/NA	Solid	9045D	
500-107010-3	2746-01-B52 (6-12)	Total/NA	Solid	9045D	
500-107010-4	2746-01-B51 (0-7)	Total/NA	Solid	9045D	
500-107010-5	2746-01-B51 (7-14)	Total/NA	Solid	9045D	
500-107010-6	2746-01-B50 (0-6.5)	Total/NA	Solid	9045D	
500-107010-7	2746-01-B50 (6.5-13)	Total/NA	Solid	9045D	
500-107010-8	2746-01-B49 (0-6.5)	Total/NA	Solid	9045D	
500-107010-9	2746-01-B49 (6.5-13)	Total/NA	Solid	9045D	
500-107010-10	2746-01-B49 (6.5-13)D	Total/NA	Solid	9045D	
500-107010-11	2746-02-B01 (0-6)	Total/NA	Solid	9045D	
500-107010-12	2746-02-B01 (6-12)	Total/NA	Solid	9045D	
500-107010-13	2746-02-B01 (12-18)	Total/NA	Solid	9045D	
500-107010-14	2746-01-B61 (0-6)	Total/NA	Solid	9045D	
500-107010-14 DU	2746-01-B61 (0-6)	Total/NA	Solid	9045D	

Analysis Batch: 322108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107010-15	2746-01-B62 (0-7)	Total/NA	Solid	9045D	
500-107010-16	2746-01-B62 (7-14)	Total/NA	Solid	9045D	
500-107010-17	2746-01-B62 (14-20)	Total/NA	Solid	9045D	
500-107010-18	2746-01-B63 (0-8)	Total/NA	Solid	9045D	
500-107010-19	2746-01-B64 (0-8)	Total/NA	Solid	9045D	
500-107010-20	2746-01-B66 (0-8)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-107010-1	2746-01-B53 (0-7)	95	100	102	103
500-107010-2	2746-01-B52 (0-6)	95	103	103	103
500-107010-3	2746-01-B52 (6-12)	95	106	100	108
500-107010-4	2746-01-B51 (0-7)	88	104	100	106
500-107010-5	2746-01-B51 (7-14)	95	102	103	102
500-107010-6	2746-01-B50 (0-6.5)	92	105	101	103
500-107010-7	2746-01-B50 (6.5-13)	93	105	101	106
500-107010-8	2746-01-B49 (0-6.5)	92	104	103	107
500-107010-9	2746-01-B49 (6.5-13)	94	104	102	105
500-107010-10	2746-01-B49 (6.5-13)D	95	107	102	106
500-107010-11	2746-02-B01 (0-6)	94	104	105	103
500-107010-12	2746-02-B01 (6-12)	96	105	100	102
500-107010-13	2746-02-B01 (12-18)	95	106	99	106
500-107010-14	2746-01-B61 (0-6)	94	104	101	102
500-107010-15	2746-01-B62 (0-7)	95	105	102	102
500-107010-16	2746-01-B62 (7-14)	88	106	98	105
500-107010-17	2746-01-B62 (14-20)	93	104	95	103
500-107010-18	2746-01-B63 (0-8)	93	105	103	100
500-107010-19	2746-01-B64 (0-8)	96	99	96	102
500-107010-20	2746-01-B66 (0-8)	98	103	97	101
LCS 500-321854/5	Lab Control Sample	103	97	88	108
LCS 500-322609/4	Lab Control Sample	101	92	83	106
MB 500-321854/7	Method Blank	97	99	90	103
MB 500-322609/5	Method Blank	101	93	89	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107010-1	2746-01-B53 (0-7)	64	66	62	59	40	65
500-107010-1 MS	2746-01-B53 (0-7)	82	86	62	78	80	105
500-107010-1 MSD	2746-01-B53 (0-7)	50	17 X	25	37	55	67
500-107010-2	2746-01-B52 (0-6)	72	67	69	67	25 X	69
500-107010-3	2746-01-B52 (6-12)	78	83	84	68	29 X	82
500-107010-4	2746-01-B51 (0-7)	59	62	57	54	54	66
500-107010-5	2746-01-B51 (7-14)	75	79	74	69	62	77
500-107010-6	2746-01-B50 (0-6.5)	74	73	71	72	51	83
500-107010-7	2746-01-B50 (6.5-13)	79	81	76	72	65	82
500-107010-8	2746-01-B49 (0-6.5)	65	74	68	65	63	75
500-107010-9	2746-01-B49 (6.5-13)	54	59	52	51	34 X	57
500-107010-10	2746-01-B49 (6.5-13)D	66	67	66	65	69	79

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Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107010-11	2746-02-B01 (0-6)	45	49	41	47	57	75
500-107010-12	2746-02-B01 (6-12)	69	78	76	70	65	83
500-107010-13	2746-02-B01 (12-18)	77	76	74	70	66	85
500-107010-14	2746-01-B61 (0-6)	83	83	83	78	47	90
500-107010-15	2746-01-B62 (0-7)	82	86	81	77	66	87
500-107010-16	2746-01-B62 (7-14)	79	84	76	73	46	83
500-107010-17	2746-01-B62 (14-20)	68	64	67	62	43	76
500-107010-18	2746-01-B63 (0-8)	60	65	60	57	59	69
500-107010-19	2746-01-B64 (0-8)	34	59	28	58	70	99
500-107010-20	2746-01-B66 (0-8)	64	72	67	64	56	89
LCS 500-321625/2-A	Lab Control Sample	83	87	87	78	72	87
LCS 500-321962/2-A	Lab Control Sample	87	90	92	82	85	93
MB 500-321625/1-A	Method Blank	71	80	74	71	54	81
MB 500-321962/1-A	Method Blank	91	95	89	85	62	100

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-321854/7
Matrix: Solid
Analysis Batch: 321854

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/04/16 10:06	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/04/16 10:06	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/04/16 10:06	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/04/16 10:06	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/04/16 10:06	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/04/16 10:06	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/04/16 10:06	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/04/16 10:06	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/04/16 10:06	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/04/16 10:06	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/04/16 10:06	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/04/16 10:06	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/04/16 10:06	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/04/16 10:06	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/04/16 10:06	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/04/16 10:06	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/04/16 10:06	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/04/16 10:06	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/04/16 10:06	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/04/16 10:06	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/04/16 10:06	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/04/16 10:06	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/04/16 10:06	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/04/16 10:06	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/04/16 10:06	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/04/16 10:06	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/04/16 10:06	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/04/16 10:06	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/04/16 10:06	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/04/16 10:06	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/04/16 10:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		02/04/16 10:06	1
Dibromofluoromethane	99		75 - 120		02/04/16 10:06	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134		02/04/16 10:06	1
Toluene-d8 (Surr)	103		75 - 122		02/04/16 10:06	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321854/5

Matrix: Solid

Analysis Batch: 321854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0573		mg/Kg		115	50 - 133
Benzene	0.0500	0.0584		mg/Kg		117	70 - 120
Bromodichloromethane	0.0500	0.0529		mg/Kg		106	69 - 120
Bromoform	0.0500	0.0505		mg/Kg		101	51 - 127
Bromomethane	0.0500	0.0463		mg/Kg		93	69 - 120
2-Butanone (MEK)	0.0500	0.0580		mg/Kg		116	50 - 148
Carbon disulfide	0.0500	0.0561		mg/Kg		112	58 - 120
Carbon tetrachloride	0.0500	0.0523		mg/Kg		105	51 - 124
Chlorobenzene	0.0500	0.0579		mg/Kg		116	70 - 120
Chloroethane	0.0500	0.0435		mg/Kg		87	49 - 125
Chloroform	0.0500	0.0550		mg/Kg		110	70 - 120
Chloromethane	0.0500	0.0576		mg/Kg		115	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0550		mg/Kg		110	70 - 120
Dibromochloromethane	0.0500	0.0522		mg/Kg		104	69 - 126
1,1-Dichloroethane	0.0500	0.0534		mg/Kg		107	70 - 120
1,2-Dichloroethane	0.0500	0.0492		mg/Kg		98	70 - 128
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 120
1,2-Dichloropropane	0.0500	0.0527		mg/Kg		105	70 - 120
Ethylbenzene	0.0500	0.0568		mg/Kg		114	70 - 120
2-Hexanone	0.0500	0.0536		mg/Kg		107	50 - 150
Methylene Chloride	0.0500	0.0556		mg/Kg		111	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0543		mg/Kg		109	50 - 150
Methyl tert-butyl ether	0.0500	0.0528		mg/Kg		106	70 - 120
Styrene	0.0500	0.0572		mg/Kg		114	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0590		mg/Kg		118	70 - 133
Tetrachloroethene	0.0500	0.0547		mg/Kg		109	70 - 120
Toluene	0.0500	0.0592		mg/Kg		118	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0544		mg/Kg		109	70 - 120
1,1,1-Trichloroethane	0.0500	0.0530		mg/Kg		106	70 - 120
1,1,2-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 120
Trichloroethene	0.0500	0.0542		mg/Kg		108	70 - 120
Vinyl acetate	0.0500	0.0560		mg/Kg		112	60 - 150
Vinyl chloride	0.0500	0.0526		mg/Kg		105	69 - 120
Xylenes, Total	0.100	0.118		mg/Kg		118	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 122
Dibromofluoromethane	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	88		70 - 134
Toluene-d8 (Surr)	108		75 - 122

Lab Sample ID: MB 500-322609/5

Matrix: Solid

Analysis Batch: 322609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/12/16 12:07	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/12/16 12:07	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322609/5

Matrix: Solid

Analysis Batch: 322609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/12/16 12:07	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/12/16 12:07	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/12/16 12:07	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/12/16 12:07	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/12/16 12:07	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/12/16 12:07	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/12/16 12:07	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/12/16 12:07	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/12/16 12:07	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/12/16 12:07	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/12/16 12:07	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/12/16 12:07	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/12/16 12:07	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/12/16 12:07	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/12/16 12:07	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/12/16 12:07	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/12/16 12:07	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/12/16 12:07	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/12/16 12:07	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/12/16 12:07	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/12/16 12:07	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/12/16 12:07	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/12/16 12:07	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/12/16 12:07	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/12/16 12:07	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/12/16 12:07	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/12/16 12:07	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/12/16 12:07	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/12/16 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		02/12/16 12:07	1
Dibromofluoromethane	93		75 - 120		02/12/16 12:07	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		02/12/16 12:07	1
Toluene-d8 (Surr)	104		75 - 122		02/12/16 12:07	1

Lab Sample ID: LCS 500-322609/4

Matrix: Solid

Analysis Batch: 322609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0572		mg/Kg		114	50 - 133

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322609/4
Matrix: Solid
Analysis Batch: 322609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0557		mg/Kg		111	70 - 120
Bromodichloromethane	0.0500	0.0488		mg/Kg		98	69 - 120
Bromoform	0.0500	0.0469		mg/Kg		94	51 - 127
Bromomethane	0.0500	0.0410		mg/Kg		82	69 - 120
2-Butanone (MEK)	0.0500	0.0553		mg/Kg		111	50 - 148
Carbon disulfide	0.0500	0.0522		mg/Kg		104	58 - 120
Carbon tetrachloride	0.0500	0.0496		mg/Kg		99	51 - 124
Chlorobenzene	0.0500	0.0547		mg/Kg		109	70 - 120
Chloroethane	0.0500	0.0350		mg/Kg		70	49 - 125
Chloroform	0.0500	0.0507		mg/Kg		101	70 - 120
Chloromethane	0.0500	0.0541		mg/Kg		108	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	70 - 120
Dibromochloromethane	0.0500	0.0493		mg/Kg		99	69 - 126
1,1-Dichloroethane	0.0500	0.0510		mg/Kg		102	70 - 120
1,2-Dichloroethane	0.0500	0.0461		mg/Kg		92	70 - 128
1,1-Dichloroethene	0.0500	0.0499		mg/Kg		100	67 - 120
1,2-Dichloropropane	0.0500	0.0511		mg/Kg		102	70 - 120
Ethylbenzene	0.0500	0.0551		mg/Kg		110	70 - 120
2-Hexanone	0.0500	0.0509		mg/Kg		102	50 - 150
Methylene Chloride	0.0500	0.0511		mg/Kg		102	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0531		mg/Kg		106	50 - 150
Methyl tert-butyl ether	0.0500	0.0506		mg/Kg		101	70 - 120
Styrene	0.0500	0.0539		mg/Kg		108	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0470		mg/Kg		94	70 - 133
Tetrachloroethene	0.0500	0.0522		mg/Kg		104	70 - 120
Toluene	0.0500	0.0547		mg/Kg		109	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120
1,1,1-Trichloroethane	0.0500	0.0493		mg/Kg		99	70 - 120
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 120
Trichloroethene	0.0500	0.0555		mg/Kg		111	70 - 120
Vinyl acetate	0.0500	0.0423		mg/Kg		85	60 - 150
Vinyl chloride	0.0500	0.0492		mg/Kg		98	69 - 120
Xylenes, Total	0.100	0.110		mg/Kg		110	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 122
Dibromofluoromethane	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	83		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-321625/1-A
Matrix: Solid
Analysis Batch: 321823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/02/16 16:29	02/03/16 22:55	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321625/1-A
Matrix: Solid
Analysis Batch: 321823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321625

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/02/16 16:29	02/03/16 22:55	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321625/1-A
Matrix: Solid
Analysis Batch: 321823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/02/16 16:29	02/03/16 22:55	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/02/16 16:29	02/03/16 22:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	02/02/16 16:29	02/03/16 22:55	1
Phenol-d5	80		31 - 110	02/02/16 16:29	02/03/16 22:55	1
Nitrobenzene-d5	74		25 - 115	02/02/16 16:29	02/03/16 22:55	1
2-Fluorobiphenyl	71		25 - 119	02/02/16 16:29	02/03/16 22:55	1
2,4,6-Tribromophenol	54		35 - 137	02/02/16 16:29	02/03/16 22:55	1
Terphenyl-d14	81		36 - 134	02/02/16 16:29	02/03/16 22:55	1

Lab Sample ID: LCS 500-321625/2-A
Matrix: Solid
Analysis Batch: 321823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.26		mg/Kg		95	41 - 110
Bis(2-chloroethyl)ether	1.33	1.11		mg/Kg		83	32 - 110
1,3-Dichlorobenzene	1.33	1.08		mg/Kg		81	44 - 110
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		83	45 - 110
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	48 - 110
2-Methylphenol	1.33	1.28		mg/Kg		96	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.08		mg/Kg		81	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.22		mg/Kg		91	24 - 123
Hexachloroethane	1.33	1.14		mg/Kg		85	44 - 110
2-Chlorophenol	1.33	1.18		mg/Kg		89	47 - 114
Nitrobenzene	1.33	1.18		mg/Kg		88	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.25		mg/Kg		94	42 - 110
1,2,4-Trichlorobenzene	1.33	1.13		mg/Kg		85	49 - 110
Isophorone	1.33	1.19		mg/Kg		89	35 - 110
2,4-Dimethylphenol	1.33	1.20		mg/Kg		90	49 - 110
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	47 - 114
Naphthalene	1.33	1.15		mg/Kg		86	48 - 110
2,4-Dichlorophenol	1.33	1.16		mg/Kg		87	53 - 113
4-Chloroaniline	1.33	1.60	*	mg/Kg		120	16 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321625/2-A

Matrix: Solid

Analysis Batch: 321823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 321625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	1.33	1.02		mg/Kg		77	44 - 118
2,4,5-Trichlorophenol	1.33	0.829		mg/Kg		62	41 - 120
Hexachlorocyclopentadiene	1.33	0.377	J	mg/Kg		28	10 - 110
2-Methylnaphthalene	1.33	1.19		mg/Kg		90	48 - 110
2-Nitroaniline	1.33	1.09		mg/Kg		82	42 - 122
2-Chloronaphthalene	1.33	1.04		mg/Kg		78	52 - 114
4-Chloro-3-methylphenol	1.33	1.13		mg/Kg		85	52 - 111
2,6-Dinitrotoluene	1.33	1.02		mg/Kg		76	54 - 117
2-Nitrophenol	1.33	1.13		mg/Kg		85	48 - 113
3-Nitroaniline	1.33	1.50		mg/Kg		113	36 - 131
Dimethyl phthalate	1.33	1.07		mg/Kg		80	56 - 113
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		19	10 - 110
Acenaphthylene	1.33	1.09		mg/Kg		81	49 - 110
2,4-Dinitrotoluene	1.33	1.04		mg/Kg		78	53 - 122
Acenaphthene	1.33	1.01		mg/Kg		75	46 - 110
Dibenzofuran	1.33	1.06		mg/Kg		80	51 - 119
4-Nitrophenol	2.67	1.99		mg/Kg		75	10 - 157
Fluorene	1.33	1.03		mg/Kg		77	47 - 121
4-Nitroaniline	1.33	1.31		mg/Kg		98	28 - 157
4-Bromophenyl phenyl ether	1.33	1.21		mg/Kg		91	55 - 113
Hexachlorobenzene	1.33	1.20		mg/Kg		90	54 - 114
Diethyl phthalate	1.33	1.11		mg/Kg		83	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.03		mg/Kg		77	53 - 117
Pentachlorophenol	2.67	1.26		mg/Kg		47	10 - 124
N-Nitrosodiphenylamine	1.33	1.23		mg/Kg		92	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.971		mg/Kg		36	10 - 110
Phenanthrene	1.33	1.33		mg/Kg		100	48 - 121
Anthracene	1.33	1.02		mg/Kg		76	48 - 118
Carbazole	1.33	1.45		mg/Kg		109	26 - 188
Di-n-butyl phthalate	1.33	1.21		mg/Kg		91	50 - 128
Fluoranthene	1.33	1.21		mg/Kg		91	48 - 128
Pyrene	1.33	1.14		mg/Kg		86	46 - 114
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	49 - 121
Benzo[a]anthracene	1.33	1.14		mg/Kg		85	49 - 121
Chrysene	1.33	1.17		mg/Kg		87	45 - 118
3,3'-Dichlorobenzidine	1.33	1.05		mg/Kg		79	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.20		mg/Kg		90	47 - 133
Di-n-octyl phthalate	1.33	1.29		mg/Kg		97	46 - 138
Benzo[b]fluoranthene	1.33	1.20		mg/Kg		90	54 - 122
Benzo[k]fluoranthene	1.33	1.05		mg/Kg		79	44 - 137
Benzo[a]pyrene	1.33	1.18		mg/Kg		89	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.32		mg/Kg		99	49 - 132
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	48 - 134
Benzo[g,h,i]perylene	1.33	1.43		mg/Kg		107	52 - 125
3 & 4 Methylphenol	1.33	1.17		mg/Kg		88	37 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	83		25 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321625/2-A
Matrix: Solid
Analysis Batch: 321823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321625

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5	87		31 - 110
Nitrobenzene-d5	87		25 - 115
2-Fluorobiphenyl	78		25 - 119
2,4,6-Tribromophenol	72		35 - 137
Terphenyl-d14	87		36 - 134

Lab Sample ID: 500-107010-1 MS
Matrix: Solid
Analysis Batch: 322321

Client Sample ID: 2746-01-B53 (0-7)
Prep Type: Total/NA
Prep Batch: 321625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19	F1 F2	1.59	1.52		mg/Kg	☼	96	41 - 110
Bis(2-chloroethyl)ether	<0.19	F1 F2	1.59	1.44		mg/Kg	☼	91	32 - 110
1,3-Dichlorobenzene	<0.19	F1 F2	1.59	1.31		mg/Kg	☼	82	44 - 110
1,4-Dichlorobenzene	<0.19	F1 F2	1.59	1.33		mg/Kg	☼	84	45 - 110
1,2-Dichlorobenzene	<0.19	F1 F2	1.59	1.34		mg/Kg	☼	84	48 - 110
2-Methylphenol	<0.19	F1 F2	1.59	1.80	F1	mg/Kg	☼	114	44 - 110
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	1.59	1.24		mg/Kg	☼	78	30 - 115
N-Nitrosodi-n-propylamine	<0.078	F1 F2	1.59	1.42		mg/Kg	☼	90	24 - 123
Hexachloroethane	<0.19	F1 F2	1.59	1.28		mg/Kg	☼	81	44 - 110
2-Chlorophenol	<0.19	F1 F2	1.59	1.36		mg/Kg	☼	86	47 - 114
Nitrobenzene	<0.038	F1 F2	1.59	1.38		mg/Kg	☼	87	35 - 113
Bis(2-chloroethoxy)methane	<0.19	F1 F2	1.59	1.48		mg/Kg	☼	94	42 - 110
1,2,4-Trichlorobenzene	<0.19	F1 F2	1.59	1.39		mg/Kg	☼	88	49 - 110
Isophorone	<0.19	F1 F2	1.59	1.10		mg/Kg	☼	70	35 - 110
2,4-Dimethylphenol	<0.38	F1 F2	1.59	1.24		mg/Kg	☼	78	49 - 110
Hexachlorobutadiene	<0.19	F1 F2	1.59	1.50		mg/Kg	☼	95	47 - 114
Naphthalene	<0.038	F1 F2	1.59	1.37		mg/Kg	☼	86	48 - 110
2,4-Dichlorophenol	<0.38	F1 F2	1.59	1.39		mg/Kg	☼	88	53 - 113
4-Chloroaniline	<0.78	* F2	1.59	1.10		mg/Kg	☼	69	16 - 118
2,4,6-Trichlorophenol	<0.38	F1 F2	1.59	1.33		mg/Kg	☼	84	44 - 118
2,4,5-Trichlorophenol	<0.38	F2	1.59	1.05		mg/Kg	☼	66	41 - 120
Hexachlorocyclopentadiene	<0.78	F1	1.59	<0.80	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	<0.038	F1 F2	1.59	1.46		mg/Kg	☼	92	48 - 110
2-Nitroaniline	<0.19	F2	1.59	1.11		mg/Kg	☼	70	42 - 122
2-Chloronaphthalene	<0.19	F1 F2	1.59	1.26		mg/Kg	☼	80	52 - 114
4-Chloro-3-methylphenol	<0.38	F1 F2	1.59	1.39		mg/Kg	☼	88	52 - 111
2,6-Dinitrotoluene	<0.19	F1 F2	1.59	1.06		mg/Kg	☼	67	54 - 117
2-Nitrophenol	<0.38	F1 F2	1.59	1.35		mg/Kg	☼	85	48 - 113
3-Nitroaniline	<0.38		1.59	1.19		mg/Kg	☼	75	36 - 131
Dimethyl phthalate	<0.19	F1 F2	1.59	1.24		mg/Kg	☼	78	56 - 113
2,4-Dinitrophenol	<0.78	F1	3.17	<0.80	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.038	F1 F2	1.59	1.28		mg/Kg	☼	81	49 - 110
2,4-Dinitrotoluene	<0.19	F2	1.59	1.15		mg/Kg	☼	73	53 - 122
Acenaphthene	<0.038	F2	1.59	1.19		mg/Kg	☼	75	46 - 110
Dibenzofuran	<0.19	F2	1.59	1.28		mg/Kg	☼	81	51 - 119
4-Nitrophenol	<0.78		3.17	2.55		mg/Kg	☼	80	10 - 157
Fluorene	<0.038		1.59	1.26		mg/Kg	☼	80	47 - 121

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107010-1 MS

Matrix: Solid

Analysis Batch: 322321

Client Sample ID: 2746-01-B53 (0-7)

Prep Type: Total/NA

Prep Batch: 321625

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Nitroaniline	<0.38		1.59	1.34		mg/Kg	☼	84	28 - 157
4-Bromophenyl phenyl ether	<0.19	F2	1.59	1.36		mg/Kg	☼	86	55 - 113
Hexachlorobenzene	<0.078	F2	1.59	1.50		mg/Kg	☼	95	54 - 114
Diethyl phthalate	<0.19		1.59	1.28		mg/Kg	☼	81	50 - 128
4-Chlorophenyl phenyl ether	<0.19		1.59	1.23		mg/Kg	☼	78	53 - 117
Pentachlorophenol	<0.78	F1	3.17	<0.80	F1	mg/Kg	☼	0	10 - 124
N-Nitrosodiphenylamine	<0.19	F2	1.59	1.53		mg/Kg	☼	97	52 - 111
4,6-Dinitro-2-methylphenol	<0.78	F1	3.17	0.468	J	mg/Kg	☼	15	10 - 110
Phenanthrene	0.021	J	1.59	1.66		mg/Kg	☼	104	48 - 121
Anthracene	<0.038		1.59	1.29		mg/Kg	☼	81	48 - 118
Carbazole	<0.19		1.59	1.71		mg/Kg	☼	108	26 - 188
Di-n-butyl phthalate	<0.19		1.59	1.52		mg/Kg	☼	96	50 - 128
Fluoranthene	<0.038		1.59	1.48		mg/Kg	☼	93	48 - 128
Pyrene	<0.038	F2	1.59	1.61		mg/Kg	☼	102	46 - 114
Butyl benzyl phthalate	<0.19	F2	1.59	1.75		mg/Kg	☼	110	49 - 121
Benzo[a]anthracene	0.0074	J F2	1.59	1.37		mg/Kg	☼	86	49 - 121
Chrysene	<0.038	F2	1.59	1.45		mg/Kg	☼	91	45 - 118
3,3'-Dichlorobenzidine	<0.19	F1 F2	1.59	0.556		mg/Kg	☼	35	26 - 128
Bis(2-ethylhexyl) phthalate	<0.19	F2	1.59	1.77		mg/Kg	☼	111	47 - 133
Di-n-octyl phthalate	<0.19		1.59	1.45		mg/Kg	☼	91	46 - 138
Benzo[b]fluoranthene	<0.038	F2	1.59	1.83		mg/Kg	☼	115	54 - 122
Benzo[k]fluoranthene	<0.038	F2	1.59	1.62		mg/Kg	☼	102	44 - 137
Benzo[a]pyrene	<0.038	F2	1.59	1.50		mg/Kg	☼	95	53 - 122
Indeno[1,2,3-cd]pyrene	<0.038	F1 F2	1.59	1.07		mg/Kg	☼	68	49 - 132
Dibenz(a,h)anthracene	<0.038	F1 F2	1.59	0.965		mg/Kg	☼	61	48 - 134
Benzo[g,h,i]perylene	<0.038	F1 F2	1.59	0.841		mg/Kg	☼	53	52 - 125
3 & 4 Methylphenol	<0.19	F1 F2	1.59	1.50		mg/Kg	☼	95	37 - 122
		MS MS							
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorophenol	82		25 - 110						
Phenol-d5	86		31 - 110						
Nitrobenzene-d5	62		25 - 115						
2-Fluorobiphenyl	78		25 - 119						
2,4,6-Tribromophenol	80		35 - 137						
Terphenyl-d14	105		36 - 134						

Lab Sample ID: 500-107010-1 MSD

Matrix: Solid

Analysis Batch: 322321

Client Sample ID: 2746-01-B53 (0-7)

Prep Type: Total/NA

Prep Batch: 321625

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.19	F1 F2	1.62	0.358		mg/Kg	☼	22	41 - 110	124	30
Bis(2-chloroethyl)ether	<0.19	F1 F2	1.62	0.153	J	mg/Kg	☼	9	32 - 110	162	30
1,3-Dichlorobenzene	<0.19	F1 F2	1.62	0.293		mg/Kg	☼	18	44 - 110	127	30
1,4-Dichlorobenzene	<0.19	F1 F2	1.62	0.175	J	mg/Kg	☼	11	45 - 110	153	30
1,2-Dichlorobenzene	<0.19	F1 F2	1.62	0.212		mg/Kg	☼	13	48 - 110	145	30
2-Methylphenol	<0.19	F1 F2	1.62	0.269		mg/Kg	☼	17	44 - 110	148	30
2,2'-oxybis[1-chloropropane]	<0.19	F1 F2	1.62	0.196	J	mg/Kg	☼	12	30 - 115	145	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107010-1 MSD

Matrix: Solid

Analysis Batch: 322321

Client Sample ID: 2746-01-B53 (0-7)

Prep Type: Total/NA

Prep Batch: 321625

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-Nitrosodi-n-propylamine	<0.078	F1 F2	1.62	0.266		mg/Kg	☼	16	24 - 123	137	30
Hexachloroethane	<0.19	F1 F2	1.62	0.164	J	mg/Kg	☼	10	44 - 110	155	30
2-Chlorophenol	<0.19	F1 F2	1.62	0.187	J	mg/Kg	☼	12	47 - 114	151	30
Nitrobenzene	<0.038	F1 F2	1.62	0.188		mg/Kg	☼	12	35 - 113	152	30
Bis(2-chloroethoxy)methane	<0.19	F1 F2	1.62	0.239		mg/Kg	☼	15	42 - 110	145	30
1,2,4-Trichlorobenzene	<0.19	F1 F2	1.62	0.303		mg/Kg	☼	19	49 - 110	128	30
Isophorone	<0.19	F1 F2	1.62	0.329		mg/Kg	☼	20	35 - 110	108	30
2,4-Dimethylphenol	<0.38	F1 F2	1.62	0.282	J	mg/Kg	☼	17	49 - 110	126	30
Hexachlorobutadiene	<0.19	F1 F2	1.62	0.348		mg/Kg	☼	22	47 - 114	125	30
Naphthalene	<0.038	F1 F2	1.62	0.267		mg/Kg	☼	17	48 - 110	135	30
2,4-Dichlorophenol	<0.38	F1 F2	1.62	0.422		mg/Kg	☼	26	53 - 113	107	30
4-Chloroaniline	<0.78	* F2	1.62	0.319	J	mg/Kg	☼	20	16 - 118	110	30
2,4,6-Trichlorophenol	<0.38	F1 F2	1.62	0.421		mg/Kg	☼	26	44 - 118	104	30
2,4,5-Trichlorophenol	<0.38	F2	1.62	0.732		mg/Kg	☼	45	41 - 120	36	30
Hexachlorocyclopentadiene	<0.78	F1	1.62	<0.81		mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	<0.038	F1 F2	1.62	0.247		mg/Kg	☼	15	48 - 110	142	30
2-Nitroaniline	<0.19	F2	1.62	0.778		mg/Kg	☼	48	42 - 122	35	30
2-Chloronaphthalene	<0.19	F1 F2	1.62	0.679		mg/Kg	☼	42	52 - 114	60	30
4-Chloro-3-methylphenol	<0.38	F1 F2	1.62	0.328	J	mg/Kg	☼	20	52 - 111	124	30
2,6-Dinitrotoluene	<0.19	F1 F2	1.62	0.823		mg/Kg	☼	51	54 - 117	25	30
2-Nitrophenol	<0.38	F1 F2	1.62	0.208	J	mg/Kg	☼	13	48 - 113	147	30
3-Nitroaniline	<0.38		1.62	1.28		mg/Kg	☼	79	36 - 131	7	30
Dimethyl phthalate	<0.19	F1 F2	1.62	0.756		mg/Kg	☼	47	56 - 113	48	30
2,4-Dinitrophenol	<0.78	F1	3.24	<0.81		mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.038	F1 F2	1.62	0.761		mg/Kg	☼	47	49 - 110	51	30
2,4-Dinitrotoluene	<0.19	F2	1.62	0.862		mg/Kg	☼	53	53 - 122	29	30
Acenaphthene	<0.038	F2	1.62	0.777		mg/Kg	☼	48	46 - 110	42	30
Dibenzofuran	<0.19	F2	1.62	0.848		mg/Kg	☼	52	51 - 119	41	30
4-Nitrophenol	<0.78		3.24	2.29		mg/Kg	☼	71	10 - 157	11	30
Fluorene	<0.038		1.62	0.933		mg/Kg	☼	58	47 - 121	30	30
4-Nitroaniline	<0.38		1.62	1.37		mg/Kg	☼	84	28 - 157	2	30
4-Bromophenyl phenyl ether	<0.19	F2	1.62	0.913		mg/Kg	☼	56	55 - 113	39	30
Hexachlorobenzene	<0.078	F2	1.62	1.01		mg/Kg	☼	62	54 - 114	39	30
Diethyl phthalate	<0.19		1.62	1.02		mg/Kg	☼	63	50 - 128	23	30
4-Chlorophenyl phenyl ether	<0.19		1.62	0.937		mg/Kg	☼	58	53 - 117	27	30
Pentachlorophenol	<0.78	F1	3.24	<0.81		mg/Kg	☼	0	10 - 124	NC	30
N-Nitrosodiphenylamine	<0.19	F2	1.62	0.842		mg/Kg	☼	52	52 - 111	58	30
4,6-Dinitro-2-methylphenol	<0.78	F1	3.24	<0.81		mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.021	J	1.62	1.20		mg/Kg	☼	73	48 - 121	32	30
Anthracene	<0.038		1.62	0.973		mg/Kg	☼	60	48 - 118	28	30
Carbazole	<0.19		1.62	1.35		mg/Kg	☼	84	26 - 188	23	30
Di-n-butyl phthalate	<0.19		1.62	1.15		mg/Kg	☼	71	50 - 128	27	30
Fluoranthene	<0.038		1.62	1.23		mg/Kg	☼	76	48 - 128	18	30
Pyrene	<0.038	F2	1.62	1.03		mg/Kg	☼	64	46 - 114	44	30
Butyl benzyl phthalate	<0.19	F2	1.62	1.12		mg/Kg	☼	69	49 - 121	44	30
Benzo[a]anthracene	0.0074	J F2	1.62	0.893		mg/Kg	☼	55	49 - 121	42	30
Chrysene	<0.038	F2	1.62	0.952		mg/Kg	☼	59	45 - 118	41	30
3,3'-Dichlorobenzidine	<0.19	F1 F2	1.62	0.389		mg/Kg	☼	24	26 - 128	35	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107010-1 MSD

Matrix: Solid

Analysis Batch: 322321

Client Sample ID: 2746-01-B53 (0-7)

Prep Type: Total/NA

Prep Batch: 321625

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Bis(2-ethylhexyl) phthalate	<0.19	F2	1.62	1.15		mg/Kg	☼	71	47 - 133	42	30	
Di-n-octyl phthalate	<0.19		1.62	1.28		mg/Kg	☼	79	46 - 138	12	30	
Benzo[b]fluoranthene	<0.038	F2	1.62	1.19		mg/Kg	☼	73	54 - 122	43	30	
Benzo[k]fluoranthene	<0.038	F2	1.62	1.10		mg/Kg	☼	68	44 - 137	38	30	
Benzo[a]pyrene	<0.038	F2	1.62	1.00		mg/Kg	☼	62	53 - 122	40	30	
Indeno[1,2,3-cd]pyrene	<0.038	F1 F2	1.62	0.567		mg/Kg	☼	35	49 - 132	62	30	
Dibenz(a,h)anthracene	<0.038	F1 F2	1.62	0.652		mg/Kg	☼	40	48 - 134	39	30	
Benzo[g,h,i]perylene	<0.038	F1 F2	1.62	0.565		mg/Kg	☼	35	52 - 125	39	30	
3 & 4 Methylphenol	<0.19	F1 F2	1.62	0.298		mg/Kg	☼	18	37 - 122	134	30	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	50		25 - 110
Phenol-d5	17	X	31 - 110
Nitrobenzene-d5	25		25 - 115
2-Fluorobiphenyl	37		25 - 119
2,4,6-Tribromophenol	55		35 - 137
Terphenyl-d14	67		36 - 134

Lab Sample ID: MB 500-321962/1-A

Matrix: Solid

Analysis Batch: 322443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 321962

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/04/16 16:37	02/11/16 14:57	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321962/1-A

Matrix: Solid

Analysis Batch: 322443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 321962

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/04/16 16:37	02/11/16 14:57	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/04/16 16:37	02/11/16 14:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	91		25 - 110	02/04/16 16:37	02/11/16 14:57	1
Phenol-d5	95		31 - 110	02/04/16 16:37	02/11/16 14:57	1
Nitrobenzene-d5	89		25 - 115	02/04/16 16:37	02/11/16 14:57	1
2-Fluorobiphenyl	85		25 - 119	02/04/16 16:37	02/11/16 14:57	1
2,4,6-Tribromophenol	62		35 - 137	02/04/16 16:37	02/11/16 14:57	1
Terphenyl-d14	100		36 - 134	02/04/16 16:37	02/11/16 14:57	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321962/2-A

Matrix: Solid

Analysis Batch: 322443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 321962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.33		mg/Kg		100	41 - 110
Bis(2-chloroethyl)ether	1.33	1.18		mg/Kg		89	32 - 110
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		88	44 - 110
1,4-Dichlorobenzene	1.33	1.20		mg/Kg		90	45 - 110
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		90	48 - 110
2-Methylphenol	1.33	1.30		mg/Kg		97	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.19		mg/Kg		89	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.31		mg/Kg		98	24 - 123
Hexachloroethane	1.33	1.25		mg/Kg		94	44 - 110
2-Chlorophenol	1.33	1.24		mg/Kg		93	47 - 114
Nitrobenzene	1.33	1.20		mg/Kg		90	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.19		mg/Kg		89	42 - 110
1,2,4-Trichlorobenzene	1.33	1.22		mg/Kg		92	49 - 110
Isophorone	1.33	1.28		mg/Kg		96	35 - 110
2,4-Dimethylphenol	1.33	1.30		mg/Kg		97	49 - 110
Hexachlorobutadiene	1.33	1.32		mg/Kg		99	47 - 114
Naphthalene	1.33	1.22		mg/Kg		91	48 - 110
2,4-Dichlorophenol	1.33	1.24		mg/Kg		93	53 - 113
4-Chloroaniline	1.33	1.28		mg/Kg		96	16 - 118
2,4,6-Trichlorophenol	1.33	1.26		mg/Kg		94	44 - 118
2,4,5-Trichlorophenol	1.33	0.793		mg/Kg		59	41 - 120
Hexachlorocyclopentadiene	1.33	0.456	J	mg/Kg		34	10 - 110
2-Methylnaphthalene	1.33	1.34		mg/Kg		100	48 - 110
2-Nitroaniline	1.33	1.10		mg/Kg		82	42 - 122
2-Chloronaphthalene	1.33	1.08		mg/Kg		81	52 - 114
4-Chloro-3-methylphenol	1.33	1.24		mg/Kg		93	52 - 111
2,6-Dinitrotoluene	1.33	1.01		mg/Kg		75	54 - 117
2-Nitrophenol	1.33	1.25		mg/Kg		94	48 - 113
3-Nitroaniline	1.33	1.41		mg/Kg		106	36 - 131
Dimethyl phthalate	1.33	1.13		mg/Kg		85	56 - 113
2,4-Dinitrophenol	2.67	0.620	J	mg/Kg		23	10 - 110
Acenaphthylene	1.33	1.13		mg/Kg		85	49 - 110
2,4-Dinitrotoluene	1.33	1.11		mg/Kg		83	53 - 122
Acenaphthene	1.33	1.05		mg/Kg		79	46 - 110
Dibenzofuran	1.33	1.11		mg/Kg		83	51 - 119
4-Nitrophenol	2.67	1.96		mg/Kg		73	10 - 157
Fluorene	1.33	1.08		mg/Kg		81	47 - 121
4-Nitroaniline	1.33	1.45		mg/Kg		109	28 - 157
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	55 - 113
Hexachlorobenzene	1.33	1.29		mg/Kg		97	54 - 114
Diethyl phthalate	1.33	1.23		mg/Kg		92	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.10		mg/Kg		83	53 - 117
Pentachlorophenol	2.67	1.59		mg/Kg		60	10 - 124
N-Nitrosodiphenylamine	1.33	1.27		mg/Kg		95	52 - 111
4,6-Dinitro-2-methylphenol	2.67	1.20		mg/Kg		45	10 - 110
Phenanthrene	1.33	1.53		mg/Kg		115	48 - 121
Anthracene	1.33	1.07		mg/Kg		80	48 - 118
Carbazole	1.33	1.58		mg/Kg		118	26 - 188

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321962/2-A
Matrix: Solid
Analysis Batch: 322443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Di-n-butyl phthalate	1.33	1.33		mg/Kg		100	50 - 128
Fluoranthene	1.33	1.30		mg/Kg		98	48 - 128
Pyrene	1.33	1.18		mg/Kg		89	46 - 114
Butyl benzyl phthalate	1.33	1.26		mg/Kg		95	49 - 121
Benzo[a]anthracene	1.33	1.20		mg/Kg		90	49 - 121
Chrysene	1.33	1.16		mg/Kg		87	45 - 118
3,3'-Dichlorobenzidine	1.33	1.08		mg/Kg		81	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.24		mg/Kg		93	47 - 133
Di-n-octyl phthalate	1.33	1.36		mg/Kg		102	46 - 138
Benzo[b]fluoranthene	1.33	1.29		mg/Kg		97	54 - 122
Benzo[k]fluoranthene	1.33	1.16		mg/Kg		87	44 - 137
Benzo[a]pyrene	1.33	1.25		mg/Kg		94	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.39		mg/Kg		104	49 - 132
Dibenz(a,h)anthracene	1.33	1.40		mg/Kg		105	48 - 134
Benzo[g,h,i]perylene	1.33	1.48		mg/Kg		111	52 - 125
3 & 4 Methylphenol	1.33	1.25		mg/Kg		94	37 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	87		25 - 110
Phenol-d5	90		31 - 110
Nitrobenzene-d5	92		25 - 115
2-Fluorobiphenyl	82		25 - 119
2,4,6-Tribromophenol	85		35 - 137
Terphenyl-d14	93		36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-321776/2-A
Matrix: Solid
Analysis Batch: 322045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.514		mg/L		103	80 - 120

Lab Sample ID: MB 500-321778/1-A
Matrix: Solid
Analysis Batch: 322048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.422	J	2.0	0.42	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Barium	<1.0		1.0	0.18	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Boron	<5.0		5.0	0.70	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Calcium	18.2	J	20	6.4	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Chromium	0.360	J	1.0	0.17	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/03/16 15:19	02/04/16 21:42	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-321778/1-A
Matrix: Solid
Analysis Batch: 322048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<1.0		1.0	0.22	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Iron	14.6	J	20	7.7	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Lead	<0.50		0.50	0.25	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Magnesium	7.59	J	10	4.1	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Potassium	<50		50	8.2	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Selenium	0.645	J	1.0	0.50	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Silver	<0.50		0.50	0.12	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Sodium	<100		100	13	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/03/16 15:19	02/04/16 21:42	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/03/16 15:19	02/04/16 21:42	1

Lab Sample ID: LCS 500-321778/2-A
Matrix: Solid
Analysis Batch: 322048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.6		mg/Kg		93	80 - 120
Arsenic	10.0	9.56		mg/Kg		96	80 - 120
Barium	200	189		mg/Kg		95	80 - 120
Beryllium	5.00	4.68		mg/Kg		94	80 - 120
Boron	100	87.9		mg/Kg		88	80 - 120
Cadmium	5.00	4.62		mg/Kg		92	80 - 120
Calcium	1000	973		mg/Kg		97	80 - 120
Chromium	20.0	19.3		mg/Kg		96	80 - 120
Cobalt	50.0	48.2		mg/Kg		96	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.04		mg/Kg		90	80 - 120
Magnesium	1000	968		mg/Kg		97	80 - 120
Manganese	50.0	46.6		mg/Kg		93	80 - 120
Nickel	50.0	48.0		mg/Kg		96	80 - 120
Potassium	1000	963		mg/Kg		96	80 - 120
Selenium	10.0	8.83		mg/Kg		88	80 - 120
Silver	5.00	4.51		mg/Kg		90	80 - 120
Sodium	1000	980		mg/Kg		98	80 - 120
Thallium	10.0	9.13		mg/Kg		91	80 - 120
Vanadium	50.0	48.4		mg/Kg		97	80 - 120
Zinc	50.0	46.9		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-321889/2-A
Matrix: Solid
Analysis Batch: 322045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.522		mg/L		104	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-321889/2-A
Matrix: Solid
Analysis Batch: 322045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.991		mg/L		99	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.505		mg/L		101	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.532		mg/L		106	80 - 120
Nickel	0.500	0.502		mg/L		100	80 - 120
Selenium	0.100	0.0950		mg/L		95	80 - 120
Silver	0.0500	0.0504		mg/L		101	80 - 120
Zinc	0.500	0.496	J	mg/L		99	80 - 120

Lab Sample ID: LB 500-321758/1-B
Matrix: Solid
Analysis Batch: 322045

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321889

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 21:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/04/16 08:30	02/04/16 21:58	1
Boron	<0.50		0.50	0.050	mg/L		02/04/16 08:30	02/04/16 21:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/04/16 08:30	02/04/16 21:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 21:58	1
Cobalt	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 21:58	1
Iron	<0.40		0.40	0.20	mg/L		02/04/16 08:30	02/04/16 21:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/04/16 08:30	02/04/16 21:58	1
Manganese	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 21:58	1
Nickel	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 21:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/04/16 08:30	02/04/16 21:58	1
Silver	<0.025		0.025	0.010	mg/L		02/04/16 08:30	02/04/16 21:58	1
Zinc	<0.50		0.50	0.020	mg/L		02/04/16 08:30	02/04/16 21:58	1

Lab Sample ID: 500-107010-6 MS
Matrix: Solid
Analysis Batch: 322045

Client Sample ID: 2746-01-B50 (0-6.5)
Prep Type: TCLP
Prep Batch: 321889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.63		0.500	1.11		mg/L		95	50 - 150
Beryllium	<0.0040		0.0500	0.0501		mg/L		100	50 - 150
Boron	0.077	J	1.00	1.06		mg/L		98	50 - 150
Cadmium	<0.0050		0.0500	0.0481		mg/L		96	50 - 150
Chromium	<0.025		0.200	0.190		mg/L		95	50 - 150
Cobalt	0.023	J	0.500	0.491		mg/L		94	50 - 150
Iron	<0.40		1.00	0.951		mg/L		95	50 - 150
Lead	<0.0075		0.100	0.0942		mg/L		94	50 - 150
Manganese	2.2		0.500	2.71	4	mg/L		93	50 - 150
Nickel	0.045		0.500	0.507		mg/L		92	50 - 150
Selenium	<0.050		0.100	0.0979		mg/L		98	50 - 150
Silver	<0.025		0.0500	0.0523		mg/L		105	50 - 150
Zinc	<0.50		0.500	0.480	J	mg/L		96	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Lab Sample ID: 500-107010-6 DU

Matrix: Solid

Analysis Batch: 322045

Client Sample ID: 2746-01-B50 (0-6.5)

Prep Type: TCLP

Prep Batch: 321889

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Barium	0.63		0.635		mg/L		0.2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.077	J	0.0761	J	mg/L		1	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.023	J	0.0231	J	mg/L		1	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.2		2.24		mg/L		0.3	20
Nickel	0.045		0.0447		mg/L		0.1	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-321614/1-B

Matrix: Solid

Analysis Batch: 322045

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 321776

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/03/16 15:00	02/04/16 16:21	1

Lab Sample ID: 500-107010-5 MS

Matrix: Solid

Analysis Batch: 322045

Client Sample ID: 2746-01-B51 (7-14)

Prep Type: SPLP East

Prep Batch: 321776

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Manganese	0.031		0.500	0.582		mg/L		110	50 - 150

Lab Sample ID: 500-107010-5 DU

Matrix: Solid

Analysis Batch: 322045

Client Sample ID: 2746-01-B51 (7-14)

Prep Type: SPLP East

Prep Batch: 321776

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Manganese	0.031		0.0337		mg/L		7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-321889/2-A

Matrix: Solid

Analysis Batch: 322316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 321889

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Antimony	0.500	0.498		mg/L		100	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LB 500-321758/1-B

Matrix: Solid

Analysis Batch: 322316

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 321889

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/04/16 08:30	02/04/16 19:44	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-321758/1-B
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321889

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		02/04/16 08:30	02/04/16 19:44	1

Lab Sample ID: 500-107010-6 MS
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: 2746-01-B50 (0-6.5)
Prep Type: TCLP
Prep Batch: 321889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.494		mg/L		99	50 - 150
Thallium	<0.0020		0.100	0.103		mg/L		103	50 - 150

Lab Sample ID: 500-107010-6 DU
Matrix: Solid
Analysis Batch: 322316

Client Sample ID: 2746-01-B50 (0-6.5)
Prep Type: TCLP
Prep Batch: 321889

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-321913/12-A
Matrix: Solid
Analysis Batch: 322515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:24	1

Lab Sample ID: LCS 500-321913/13-A
Matrix: Solid
Analysis Batch: 322515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

Lab Sample ID: LB 500-321758/1-C
Matrix: Solid
Analysis Batch: 322515

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 321913

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/04/16 13:00	02/05/16 10:28	1

Lab Sample ID: 500-107010-2 MSD
Matrix: Solid
Analysis Batch: 322515

Client Sample ID: 2746-01-B52 (0-6)
Prep Type: TCLP
Prep Batch: 321913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000983		mg/L					

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-107010-2 DU
Matrix: Solid
Analysis Batch: 322515

Client Sample ID: 2746-01-B52 (0-6)
Prep Type: TCLP
Prep Batch: 321913

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-321615/12-A
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/03/16 09:20	02/03/16 15:32	1

Lab Sample ID: LCS 500-321615/13-A
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

Lab Sample ID: 500-107010-1 MS
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: 2746-01-B53 (0-7)
Prep Type: Total/NA
Prep Batch: 321615

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.018		0.0879	0.0858		mg/Kg	☼	77	75 - 125

Lab Sample ID: 500-107010-1 MSD
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: 2746-01-B53 (0-7)
Prep Type: Total/NA
Prep Batch: 321615

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.018		0.0910	0.0947		mg/Kg	☼	85	75 - 125	10	20

Lab Sample ID: 500-107010-1 DU
Matrix: Solid
Analysis Batch: 321813

Client Sample ID: 2746-01-B53 (0-7)
Prep Type: Total/NA
Prep Batch: 321615

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.018		0.0313	F5	mg/Kg	☼	55	20

Method: 9045D - pH

Lab Sample ID: 500-107010-14 DU
Matrix: Solid
Analysis Batch: 322055

Client Sample ID: 2746-01-B61 (0-6)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.57		8.560		SU		0.1	

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Date Collected: 02/01/16 10:00

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 16:34	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 22:27	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:52	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:30	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 15:43		
					(End)	02/04/16 15:45		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B53 (0-7)

Lab Sample ID: 500-107010-1

Date Collected: 02/01/16 10:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 12:08	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/03/16 23:24	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 21:51	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:04	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:36	MJD	TAL CHI

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 16:41	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 22:34	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 19:56	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 15:45 (End) 02/04/16 15:46	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B52 (0-6)

Lab Sample ID: 500-107010-2

Date Collected: 02/01/16 10:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 12:32	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/03/16 23:53	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 21:56	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:08	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:49	MJD	TAL CHI

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 16:48	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 22:41	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:00	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:38	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 15:46 (End) 02/04/16 15:48	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B52 (6-12)

Lab Sample ID: 500-107010-3

Date Collected: 02/01/16 10:45

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 12:57	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 00:22	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:01	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:12	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:51	MJD	TAL CHI

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Date Collected: 02/01/16 11:55

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 16:55	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 22:48	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:04	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 15:48 (End) 02/04/16 15:50	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (0-7)

Lab Sample ID: 500-107010-4

Date Collected: 02/01/16 11:55

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 13:21	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 00:51	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:06	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:17	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:53	MJD	TAL CHI

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 17:01	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 22:54	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:09	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 15:50		
					(End)	02/04/16 15:52		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 13:45	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 01:20	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:11	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B51 (7-14)

Lab Sample ID: 500-107010-5

Date Collected: 02/01/16 12:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:21	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:55	MJD	TAL CHI

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Date Collected: 02/01/16 12:25

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:17	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 23:01	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:13	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 15:52		
					(End)	02/04/16 15:54		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B50 (0-6.5)

Lab Sample ID: 500-107010-6

Date Collected: 02/01/16 12:25

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 14:11	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 01:49	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:16	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:32	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:57	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Date Collected: 02/01/16 12:30

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:24	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 23:44	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:37	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 15:54		
					(End)	02/04/16 15:56		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B50 (6.5-13)

Lab Sample ID: 500-107010-7

Date Collected: 02/01/16 12:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 14:35	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 02:19	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:21	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:36	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 15:59	MJD	TAL CHI

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:31	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 23:51	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:41	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 15:56 (End) 02/04/16 15:58	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B49 (0-6.5)

Lab Sample ID: 500-107010-8

Date Collected: 02/01/16 13:10

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 15:00	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 02:48	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:26	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:40	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:01	MJD	TAL CHI

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:38	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/04/16 23:58	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:45	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:54	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 15:58 (End) 02/04/16 16:00	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B49 (6.5-13)

Lab Sample ID: 500-107010-9

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 15:24	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 03:17	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:39	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:44	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:07	MJD	TAL CHI

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:44	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:04	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:49	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 16:00 (End) 02/04/16 16:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B49 (6.5-13)D

Lab Sample ID: 500-107010-10

Date Collected: 02/01/16 13:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 15:49	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 03:46	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:44	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:49	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:09	MJD	TAL CHI

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:51	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:11	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:53	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 10:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 16:01		
					(End)	02/04/16 16:03		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 16:14	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 04:15	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:49	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (0-6)

Lab Sample ID: 500-107010-11

Date Collected: 02/01/16 11:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:53	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:11	MJD	TAL CHI

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Date Collected: 02/01/16 11:20

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 18:58	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:18	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 20:57	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 16:03		
					(End)	02/04/16 16:05		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-02-B01 (6-12)

Lab Sample ID: 500-107010-12

Date Collected: 02/01/16 11:20

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 16:39	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 04:44	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 22:54	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 20:57	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:13	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Date Collected: 02/01/16 11:30

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 19:04	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:25	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:02	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055		SMO	TAL CHI
					(Start)	02/04/16 16:05		
					(End)	02/04/16 16:07		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-02-B01 (12-18)

Lab Sample ID: 500-107010-13

Date Collected: 02/01/16 11:30

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 17:03	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 05:13	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:00	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 21:01	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:15	MJD	TAL CHI

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 19:27	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:32	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:18	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322055	(Start) 02/04/16 16:07 (End) 02/04/16 16:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B61 (0-6)

Lab Sample ID: 500-107010-14

Date Collected: 02/01/16 14:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 17:28	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 05:42	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:05	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 21:05	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:17	MJD	TAL CHI

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 19:34	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:38	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:22	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:05	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322108	(Start) 02/05/16 13:12 (End) 02/05/16 13:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B62 (0-7)

Lab Sample ID: 500-107010-15

Date Collected: 02/01/16 15:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 17:53	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 06:11	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:09	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 21:09	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:19	MJD	TAL CHI

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Date Collected: 02/01/16 15:05

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 19:41	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 00:45	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:26	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:11	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322108	(Start) 02/05/16 13:16 (End) 02/05/16 13:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (7-14)

Lab Sample ID: 500-107010-16

Date Collected: 02/01/16 15:05

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 18:19	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 06:40	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:14	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 21:21	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:21	MJD	TAL CHI

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 19:47	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 01:08	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:30	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322108		SMO	TAL CHI
					(Start)	02/05/16 13:21		
					(End)	02/05/16 13:26		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 18:44	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	321823	02/04/16 07:09	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:19	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B62 (14-20)

Lab Sample ID: 500-107010-17

Date Collected: 02/01/16 15:15

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 21:26	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:23	MJD	TAL CHI

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Date Collected: 02/01/16 15:35

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 19:54	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 01:15	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:34	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:15	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322108		SMO	TAL CHI
					(Start)	02/05/16 13:26		
					(End)	02/05/16 13:30		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B63 (0-8)

Lab Sample ID: 500-107010-18

Date Collected: 02/01/16 15:35

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	321854	02/04/16 19:08	BDW	TAL CHI
Total/NA	Prep	3541			321962	02/04/16 16:37	DEA	TAL CHI
Total/NA	Analysis	8270D		1	322443	02/11/16 16:53	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:25	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:25	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Date Collected: 02/01/16 15:40

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 20:01	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 01:21	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:38	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322108		SMO	TAL CHI
					(Start)	02/05/16 13:30		
					(End)	02/05/16 13:35		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B64 (0-8)

Lab Sample ID: 500-107010-19

Date Collected: 02/01/16 15:40

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322609	02/12/16 12:31	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	322321	02/10/16 17:38	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:38	PJ1	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322410	02/10/16 21:30	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:30	MJD	TAL CHI

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			321614	02/02/16 14:35	RA	TAL CHI
SPLP East	Prep	3010A			321776	02/03/16 15:00	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322045	02/04/16 20:08	PJ1	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	322045	02/05/16 01:28	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	3010A			321889	02/04/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	322316	02/04/16 21:42	FXG	TAL CHI
TCLP	Leach	1311			321758	02/03/16 12:55	RA	TAL CHI
TCLP	Prep	7470A			321913	02/04/16 13:00	MJD	TAL CHI
TCLP	Analysis	7470A		1	322515	02/05/16 11:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322108		SMO	TAL CHI
					(Start)	02/05/16 13:35		
					(End)	02/05/16 13:39		
Total/NA	Analysis	Moisture		1	321701	02/03/16 08:27	LWN	TAL CHI

Client Sample ID: 2746-01-B66 (0-8)

Lab Sample ID: 500-107010-20

Date Collected: 02/01/16 16:00

Matrix: Solid

Date Received: 02/02/16 07:45

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321672	02/02/16 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322609	02/12/16 12:56	BDW	TAL CHI
Total/NA	Prep	3541			321625	02/02/16 16:29	DEA	TAL CHI
Total/NA	Analysis	8270D		1	322321	02/10/16 18:07	GES	TAL CHI
Total/NA	Prep	3050B			321778	02/03/16 15:19	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322048	02/04/16 23:43	PJ1	TAL CHI
Total/NA	Prep	7471B			321615	02/03/16 09:20	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321813	02/03/16 16:32	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107010-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.534.5200



500-107010 COC

Report To (optional)
Contact: PT
Company: EC
Address:
Address:
Phone:
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-107010

Chain of Custody Number: E905-03

Page _____ of _____

Temperature °C of Cooler: 29.312

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Parameter		# of Containers	Matrix	VOL	S VOL	Total TAC		TCC P/S P/S	TAC	PHT % SOLN.
Project Location/State		Lab Project #		Parameter										
EE		6009341.000501												
I 90		5084810												
Cook County, IL		5084810												
S. Cooper		S. Wright												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOL	S VOL	Total TAC	TCC P/S P/S	TAC	PHT % SOLN.	Comments	
1		2746-01-B53(0-7)	2-1-16	1000	2 S		X	X	X	X	X			
2		2746-01-B52(0-6)	2-1-16	1040	2 S		X	X	X	X	X			
3		2746-01-B52(6-12)	2-1-16	1045	2 S		X	X	X	X	X			
4		2746-01-B51(0-7)	2-1-16	1155	2 S		X	X	X	X	X			
5		2746-01-B51(7-14)	2-1-16	1200	2 S		X	X	X	X	X			
6		2746-01-B50(0-6.5)	2-1-16	1225	2 S		X	X	X	X	X			
7		2746-01-B50(6.5-13)	2-1-16	1230	2 S		X	X	X	X	X			
8		2746-01-B49(0-6.5)	2-1-16	1310	2 S		X	X	X	X	X			
9		2746-01-B49(6.5-13)	2-1-16	1315	2 S		X	X	X	X	X			
10		2746-01-B49(6.5-13)D	2-1-16	1315	2 S		X	X	X	X	X			

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>2/1/16</u>	Time: <u>1615</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/1/16</u>	Time: <u>1615</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/1/16</u>	Time: <u>1725</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: <u>0745</u>	Shipped: <input type="checkbox"/>
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:	Hand Delivered: <input type="checkbox"/>

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: PT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107010

Chain of Custody Number: E905-04

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative							Preservative Key		
EE		1004341-0005-01									1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter							Comments		
I90		5004818											
Project Location/State		Lab Project #		Parameter							Comments		
Cook County, IL		5004818											
Sampler		Lab PM		Matrix							Comments		
S. Cooper		D. Wright											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						Comments	
			Date	Time									
11		2746-02-B01(0-6)	2-1-16	1115	2 S	VOC	X	X	X	X	X		
12		2746-02-B01(6-12)	2-1-16	1120	2 S	S VOC	X	X	X	X	X		
13		2746-02-B01(12-18)	2-1-16	1130	2 S	Total TAC Meth TCC/SPG TAC Meth PHT/YSol.D.	X	X	X	X	X		

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>EE</u> Date: <u>2-1-16</u> Time: <u>1015</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/1/16</u> Time: <u>1615</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/1/16</u> Time: <u>1725</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/2/16</u> Time: <u>0745</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: DT
 Company: SL
 Address: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107010
 Chain of Custody Number: E905-05
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
EE		1009341-0005-01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
I90		S011818									
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
Cook County, IL		S011818									
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
S. Cooper		D. Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
14		2746-01-B61 (0-6)	2-1-16	1415	2 S	VOL	X	X	X	X	X
15		2746-01-B62 (0-7)	2-1-16	1500	2 S	SVOL	X	X	X	X	X
16		2746-01-B62 (7-14)	2-1-16	1505	2 S	TOTAL METALS	X	X	X	X	X
17		2746-01-B62 (14-20)	2-1-16	1515	2 S	TOTAL SPUR	X	X	X	X	X
18		2746-01-B63 (0-8)	2-1-16	1535	2 S	TA METALS	X	X	X	X	X
19		2746-01-B64 (0-8)	2-1-16	1540	2 S	PH/90 SILICA	X	X	X	X	X
20		2746-01-B66 (0-8)	2-1-16	1600	2 S		X	X	X	X	X

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>EE</u> Date: <u>2-1-16</u> Time: <u>1615</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/1/16</u> Time: <u>1415</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/1/16</u> Time: <u>1725</u>	Received By: <u>[Signature]</u> Company: <u>TA-CPT</u> Date: <u>2/2/16</u> Time: <u>0745</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107010-1

Login Number: 107010

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9,3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107086-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout

Jodie Bracken

Authorized for release by:
2/15/2016 5:03:56 PM
Jodie Bracken, Project Management Assistant II
jodie.bracken@testamericainc.com

Designee for
Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 11
- 12
- 13
- 14



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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Job ID: 500-107086-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107086-1

Comments

No additional comments.

Receipt

The samples were received on 2/3/2016 7:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.3° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-321853 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2746-01-B69 (0-2) (500-107086-1), 2746-01-B70 (0-2) (500-107086-2), 2746-01-B71 (0-8) (500-107086-3), 2746-01-B72 (0-8) (500-107086-4), 2746-01-B73 (0-8) (500-107086-5), 2746-01-B65 (0-8) (500-107086-6), 2746-01-B67 (0-8) (500-107086-7), 2746-01-B68 (0-5) (500-107086-8), 2746-01-B68 (5-10) (500-107086-9), 2746-01-B74 (0-8) (500-107086-10), 2746-18-B01 (0-8) (500-107086-11) and 2746-01-B75 (0-8) (500-107086-13).

Method(s) 8260B: The laboratory control sample (LCS) for batch 500-321853 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample was diluted due to the abundance of non-target analytes: 2746-18-B01 (0-8)D (500-107086-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one surrogate outside acceptance limits: 2746-01-B74 (0-8) (500-107086-10), 2746-18-B01 (0-8) (500-107086-11) and 2746-18-B01 (0-8)D (500-107086-12). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B69 (0-2)

Lab Sample ID: 500-107086-1

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B70 (0-2)

Lab Sample ID: 500-107086-2

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B71 (0-8)

Lab Sample ID: 500-107086-3

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B72 (0-8)

Lab Sample ID: 500-107086-4

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B73 (0-8)

Lab Sample ID: 500-107086-5

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B65 (0-8)

Lab Sample ID: 500-107086-6

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B67 (0-8)

Lab Sample ID: 500-107086-7

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B68 (0-5)

Lab Sample ID: 500-107086-8

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B68 (5-10)

Lab Sample ID: 500-107086-9

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B74 (0-8)

Lab Sample ID: 500-107086-10

Sample Analysis Not Complete.

Client Sample ID: 2746-18-B01 (0-8)

Lab Sample ID: 500-107086-11

Sample Analysis Not Complete.

Client Sample ID: 2746-18-B01 (0-8)D

Lab Sample ID: 500-107086-12

Sample Analysis Not Complete.

Client Sample ID: 2746-01-B75 (0-8)

Lab Sample ID: 500-107086-13

Sample Analysis Not Complete.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107086-1	2746-01-B69 (0-2)	Solid	02/02/16 08:30	02/03/16 07:10
500-107086-2	2746-01-B70 (0-2)	Solid	02/02/16 08:40	02/03/16 07:10
500-107086-3	2746-01-B71 (0-8)	Solid	02/02/16 08:50	02/03/16 07:10
500-107086-4	2746-01-B72 (0-8)	Solid	02/02/16 09:00	02/03/16 07:10
500-107086-5	2746-01-B73 (0-8)	Solid	02/02/16 09:15	02/03/16 07:10
500-107086-6	2746-01-B65 (0-8)	Solid	02/02/16 10:00	02/03/16 07:10
500-107086-7	2746-01-B67 (0-8)	Solid	02/02/16 10:15	02/03/16 07:10
500-107086-8	2746-01-B68 (0-5)	Solid	02/02/16 10:30	02/03/16 07:10
500-107086-9	2746-01-B68 (5-10)	Solid	02/02/16 10:35	02/03/16 07:10
500-107086-10	2746-01-B74 (0-8)	Solid	02/02/16 10:50	02/03/16 07:10
500-107086-11	2746-18-B01 (0-8)	Solid	02/02/16 09:35	02/03/16 07:10
500-107086-12	2746-18-B01 (0-8)D	Solid	02/02/16 09:35	02/03/16 07:10
500-107086-13	2746-01-B75 (0-8)	Solid	02/02/16 11:15	02/03/16 07:10



Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B69 (0-2)

Lab Sample ID: 500-107086-1

Date Collected: 02/02/16 08:30

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Arsenic	6.9		0.57	0.26	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Barium	61		0.57	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Beryllium	0.70		0.23	0.049	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Boron	9.6		2.9	0.40	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Cadmium	1.2		0.11	0.033	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Calcium	50000	B	110	37	mg/Kg	☼	02/04/16 15:37	02/06/16 05:43	10
Chromium	22	B	0.57	0.098	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Cobalt	13		0.29	0.065	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Copper	27		0.57	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Lead	51		0.29	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Magnesium	21000	B	5.7	2.3	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Manganese	420		0.57	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Nickel	35		0.57	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Potassium	2100		29	4.7	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Selenium	0.34	J	0.57	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Sodium	150		57	7.5	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Thallium	0.32	J	0.57	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Vanadium	22		0.29	0.083	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1
Zinc	86		1.1	0.36	mg/Kg	☼	02/04/16 15:37	02/05/16 19:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 19:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 19:54	1
Boron	1.4		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 19:54	1
Cadmium	0.0053		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 19:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:54	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 19:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 19:54	1
Manganese	0.32		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:54	1
Nickel	0.014	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 19:54	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:54	1
Zinc	0.36	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 19:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.018	0.0096	mg/Kg	☼	02/03/16 16:15	02/04/16 10:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B70 (0-2)

Lab Sample ID: 500-107086-2

Date Collected: 02/02/16 08:40

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 84.3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Arsenic	5.7		0.54	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Barium	51		0.54	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Beryllium	0.62		0.22	0.047	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Boron	9.8		2.7	0.38	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Cadmium	0.095	J	0.11	0.031	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Calcium	65000	B	110	35	mg/Kg	☼	02/04/16 15:37	02/06/16 06:06	10
Chromium	17	B	0.54	0.094	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Cobalt	12		0.27	0.061	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Copper	23		0.54	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Iron	16000	B	11	4.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Lead	24		0.27	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Magnesium	22000	B	5.4	2.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Manganese	420		0.54	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Nickel	35		0.54	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Potassium	2000		27	4.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Selenium	0.43	J	0.54	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Sodium	120		54	7.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Vanadium	20		0.27	0.079	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1
Zinc	64		1.1	0.34	mg/Kg	☼	02/04/16 15:37	02/05/16 19:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 19:59	1
Boron	1.6		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 19:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 19:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:59	1
Cobalt	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:59	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 19:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 19:59	1
Manganese	0.14		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:59	1
Nickel	0.014	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 19:59	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:59	1
Zinc	0.23	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 19:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.019	0.010	mg/Kg	☼	02/03/16 16:15	02/04/16 10:35	1

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B71 (0-8)

Lab Sample ID: 500-107086-3

Date Collected: 02/02/16 08:50

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Arsenic	4.6		0.58	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Barium	77		0.58	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Beryllium	0.53		0.23	0.050	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Boron	7.1		2.9	0.41	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Cadmium	0.037	J	0.12	0.034	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Calcium	22000	B	12	3.7	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Chromium	17	B	0.58	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Cobalt	8.5		0.29	0.066	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Copper	19		0.58	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Iron	12000	B	12	4.5	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Lead	21		0.29	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Magnesium	15000	B	5.8	2.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Manganese	290		0.58	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Nickel	25		0.58	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Potassium	1100		29	4.7	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Sodium	680		58	7.7	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Vanadium	25		0.29	0.085	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1
Zinc	44		1.2	0.37	mg/Kg	☼	02/04/16 15:37	02/05/16 19:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.32	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:04	1
Boron	1.1		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:04	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:04	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:04	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:04	1
Lead	0.010		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:04	1
Manganese	4.4		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:04	1
Nickel	0.027		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:04	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:04	1
Zinc	0.18	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.010	mg/Kg	☼	02/03/16 16:15	02/04/16 10:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B72 (0-8)

Lab Sample ID: 500-107086-4

Date Collected: 02/02/16 09:00

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 82.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Arsenic	5.0		0.60	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Barium	74		0.60	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Beryllium	0.57		0.24	0.052	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Boron	9.7		3.0	0.42	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Cadmium	3.3		0.12	0.034	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Calcium	27000	B	12	3.8	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Chromium	16	B	0.60	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Cobalt	9.6		0.30	0.067	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Copper	37		0.60	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Iron	14000	B	12	4.6	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Lead	380		0.30	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Magnesium	17000	B	6.0	2.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Manganese	280		0.60	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Nickel	24		0.60	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Potassium	930		30	4.9	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Selenium	0.40	J	0.60	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Sodium	1300		60	7.9	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Vanadium	20		0.30	0.087	mg/Kg	☼	02/04/16 15:37	02/05/16 19:33	1
Zinc	2300		12	3.8	mg/Kg	☼	02/04/16 15:37	02/06/16 06:20	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:09	1
Boron	1.4		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:09	1
Cadmium	0.064		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:09	1
Cobalt	0.038		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:09	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:09	1
Lead	0.24		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:09	1
Manganese	5.1		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:09	1
Nickel	0.051		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:09	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:09	1
Zinc	10	B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.019	0.010	mg/Kg	☼	02/03/16 16:15	02/04/16 10:39	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B73 (0-8)

Lab Sample ID: 500-107086-5

Date Collected: 02/02/16 09:15

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Arsenic	5.0		0.56	0.26	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Barium	61		0.56	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Boron	5.2		2.8	0.39	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Cadmium	0.045	J	0.11	0.033	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Calcium	9200	B	11	3.6	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Chromium	16	B	0.56	0.097	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Cobalt	11		0.28	0.064	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Copper	15		0.56	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Iron	16000	B	11	4.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Lead	15		0.28	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Magnesium	7500	B	5.6	2.3	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Manganese	360		0.56	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Nickel	29		0.56	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Potassium	1100		28	4.6	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Selenium	0.35	J	0.56	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Sodium	920		56	7.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Vanadium	23		0.28	0.082	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1
Zinc	49		1.1	0.36	mg/Kg	☼	02/04/16 15:37	02/05/16 19:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:15	1
Boron	0.12	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:15	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:15	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:15	1
Manganese	7.2		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:15	1
Nickel	0.023	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:15	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:15	1
Zinc	0.060	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0093	mg/Kg	☼	02/03/16 16:15	02/04/16 10:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B65 (0-8)

Lab Sample ID: 500-107086-6

Date Collected: 02/02/16 10:00

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 82.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Arsenic	3.9		0.57	0.26	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Barium	78		0.57	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Beryllium	0.68		0.23	0.050	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Boron	5.2		2.9	0.40	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Cadmium	0.14		0.11	0.033	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Calcium	13000	B	11	3.7	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Chromium	17	B	0.57	0.098	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Cobalt	12		0.29	0.065	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Copper	19		0.57	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Iron	15000	B	11	4.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Lead	15		0.29	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Magnesium	9900	B	5.7	2.3	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Manganese	330		0.57	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Nickel	28		0.57	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Potassium	1200		29	4.7	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Sodium	1700		57	7.6	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Thallium	0.36	J	0.57	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Vanadium	25		0.29	0.084	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1
Zinc	54		1.1	0.36	mg/Kg	☼	02/04/16 15:37	02/05/16 19:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:44	1
Boron	0.13	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:44	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:44	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:44	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:44	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:44	1
Lead	0.015		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:44	1
Manganese	7.7		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:44	1
Nickel	0.016	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:44	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:44	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:44	1
Zinc	0.27	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.010	mg/Kg	☼	02/03/16 16:15	02/04/16 10:43	1

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B67 (0-8)

Lab Sample ID: 500-107086-7

Date Collected: 02/02/16 10:15

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Arsenic	5.4		0.54	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Barium	68		0.54	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Beryllium	0.57		0.22	0.047	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Boron	5.8		2.7	0.38	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Cadmium	0.095	J	0.11	0.031	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Calcium	16000	B	11	3.5	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Chromium	15	B	0.54	0.094	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Cobalt	9.4		0.27	0.061	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Copper	18		0.54	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Iron	15000	B	11	4.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Lead	21		0.27	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Magnesium	10000	B	5.4	2.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Manganese	230		0.54	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Nickel	24		0.54	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Potassium	1100		27	4.4	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Sodium	1400		54	7.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Vanadium	23		0.27	0.079	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1
Zinc	58		1.1	0.34	mg/Kg	☼	02/04/16 15:37	02/05/16 19:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:49	1
Boron	0.11	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:49	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:49	1
Cobalt	0.023	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:49	1
Iron	0.25	J	0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:49	1
Manganese	4.5		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:49	1
Nickel	0.029		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:49	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:49	1
Zinc	0.083	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.019	0.010	mg/Kg	☼	02/03/16 16:15	02/04/16 10:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B68 (0-5)

Lab Sample ID: 500-107086-8

Date Collected: 02/02/16 10:30

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 87.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Arsenic	9.3		0.55	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Barium	45		0.55	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Beryllium	0.60		0.22	0.048	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Boron	9.0		2.7	0.38	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Calcium	70000	B	110	35	mg/Kg	☼	02/04/16 15:37	02/06/16 06:47	10
Chromium	15	B	0.55	0.094	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Cobalt	17		0.27	0.062	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Copper	21		0.55	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Iron	18000	B	11	4.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Lead	13		0.27	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Magnesium	27000	B	5.5	2.2	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Manganese	590		0.55	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Nickel	37		0.55	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Potassium	1700		27	4.5	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Selenium	0.65		0.55	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Sodium	870		55	7.3	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Thallium	0.65		0.55	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Vanadium	20		0.27	0.080	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1
Zinc	49		1.1	0.35	mg/Kg	☼	02/04/16 15:37	02/05/16 19:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:54	1
Boron	0.078	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:54	1
Iron	0.21	J	0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:54	1
Manganese	0.85		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:54	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:54	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:54	1
Zinc	0.043	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016		0.016	0.0086	mg/Kg	☼	02/03/16 16:15	02/04/16 10:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B68 (5-10)

Lab Sample ID: 500-107086-9

Date Collected: 02/02/16 10:35

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Arsenic	7.9		0.58	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Barium	95		0.58	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Beryllium	0.80		0.23	0.051	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Boron	12		2.9	0.41	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Calcium	64000	B	120	38	mg/Kg	☼	02/04/16 15:37	02/06/16 06:54	10
Chromium	20	B	0.58	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Cobalt	31		0.29	0.066	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Copper	23		0.58	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Iron	20000	B	12	4.5	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Lead	15		0.29	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Magnesium	21000	B	5.8	2.4	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Manganese	730		0.58	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Nickel	46		0.58	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Potassium	2700		29	4.8	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Selenium	0.72		0.58	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Sodium	420		58	7.7	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Thallium	0.42	J	0.58	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Vanadium	21		0.29	0.085	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1
Zinc	57		1.2	0.37	mg/Kg	☼	02/04/16 15:37	02/05/16 20:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 20:59	1
Boron	0.053	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 20:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 20:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:59	1
Cobalt	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:59	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 20:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 20:59	1
Manganese	0.81		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:59	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 20:59	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 20:59	1
Zinc	<0.50		0.50	0.020	mg/L		02/05/16 14:30	02/06/16 20:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0097	mg/Kg	☼	02/03/16 16:15	02/04/16 10:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B74 (0-8)

Lab Sample ID: 500-107086-10

Date Collected: 02/02/16 10:50

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Arsenic	5.8		0.59	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Barium	54		0.59	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Beryllium	0.62		0.24	0.051	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Boron	9.9		3.0	0.41	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Cadmium	0.067	J	0.12	0.034	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Calcium	55000	B	120	38	mg/Kg	☼	02/04/16 15:37	02/06/16 07:00	10
Chromium	17	B	0.59	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Cobalt	12		0.30	0.067	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Copper	17		0.59	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Iron	16000	B	12	4.6	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Lead	12		0.30	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Magnesium	24000	B	5.9	2.4	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Manganese	660		0.59	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Nickel	35		0.59	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Potassium	1900		30	4.8	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Sodium	2200		59	7.8	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Vanadium	20		0.30	0.086	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1
Zinc	47		1.2	0.37	mg/Kg	☼	02/04/16 15:37	02/05/16 20:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 21:04	1
Boron	0.052	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 21:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:04	1
Cobalt	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:04	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 21:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 21:04	1
Manganese	0.69		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:04	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 21:04	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:04	1
Zinc	<0.50		0.50	0.020	mg/L		02/05/16 14:30	02/06/16 21:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.011	mg/Kg	☼	02/03/16 16:15	02/04/16 10:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-18-B01 (0-8)

Lab Sample ID: 500-107086-11

Date Collected: 02/02/16 09:35

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Arsenic	5.9		0.60	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Barium	72		0.60	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Beryllium	0.67		0.24	0.052	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Boron	8.5		3.0	0.42	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Cadmium	0.19		0.12	0.035	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Calcium	33000	B	12	3.8	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Chromium	17	B	0.60	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Cobalt	11		0.30	0.068	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Copper	23		0.60	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Iron	15000	B	12	4.6	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Lead	94		0.30	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Magnesium	21000	B	6.0	2.4	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Manganese	310		0.60	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Nickel	27		0.60	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Potassium	1600		30	4.9	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Selenium	1.2		0.60	0.30	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Sodium	900		60	7.9	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Vanadium	20		0.30	0.087	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1
Zinc	79		1.2	0.38	mg/Kg	☼	02/04/16 15:37	02/05/16 20:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 21:09	1
Boron	0.10	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:09	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 21:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:09	1
Cobalt	0.029		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:09	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 21:09	1
Lead	0.029		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 21:09	1
Manganese	6.6		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:09	1
Nickel	0.022	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 21:09	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:09	1
Zinc	0.11	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 21:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.020	0.011	mg/Kg	☼	02/03/16 16:15	02/04/16 10:57	1

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-18-B01 (0-8)D

Lab Sample ID: 500-107086-12

Date Collected: 02/02/16 09:35

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Arsenic	5.4		0.61	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Barium	70		0.61	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Beryllium	0.73		0.24	0.053	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Boron	10		3.0	0.42	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Cadmium	0.11	J	0.12	0.035	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Calcium	35000	B	12	3.9	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Chromium	19	B	0.61	0.10	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Cobalt	13		0.30	0.069	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Copper	25		0.61	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Iron	18000	B	12	4.7	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Lead	36		0.30	0.15	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Magnesium	20000	B	6.1	2.5	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Manganese	460		0.61	0.12	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Nickel	34		0.61	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Potassium	2100		30	5.0	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Selenium	0.82		0.61	0.30	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Sodium	860		61	8.0	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Thallium	0.57	J	0.61	0.30	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Vanadium	23		0.30	0.089	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1
Zinc	73		1.2	0.38	mg/Kg	☼	02/04/16 15:37	02/05/16 20:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.68		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 21:14	1
Boron	0.11	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:14	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 21:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:14	1
Cobalt	0.029		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:14	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 21:14	1
Lead	0.039		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 21:14	1
Manganese	6.4		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:14	1
Nickel	0.026		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 21:14	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:14	1
Zinc	0.14	J B	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 21:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.010	mg/Kg	☼	02/03/16 16:15	02/04/16 11:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B75 (0-8)

Lab Sample ID: 500-107086-13

Date Collected: 02/02/16 11:15

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 82.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.24	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Arsenic	6.9	F1 F2	0.58	0.27	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Barium	71		0.58	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Beryllium	0.72		0.23	0.050	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Boron	8.4	F1	2.9	0.40	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Cadmium	0.099	J	0.12	0.033	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Calcium	32000	B F2	12	3.7	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Chromium	19	B	0.58	0.099	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Cobalt	14	F1 F2	0.29	0.065	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Copper	24		0.58	0.13	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Iron	18000	B	12	4.4	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Lead	72	F2	0.29	0.14	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Magnesium	19000	B	5.8	2.3	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Manganese	310	F2	0.58	0.11	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Nickel	35		0.58	0.16	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Potassium	1900	F1	29	4.7	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Selenium	0.72	F1	0.58	0.29	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Sodium	2000	F1	58	7.6	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Thallium	0.40	J	0.58	0.28	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Vanadium	23		0.29	0.084	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1
Zinc	70	F1	1.2	0.36	mg/Kg	☼	02/04/16 15:37	02/05/16 20:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 21:28	1
Boron	0.055	J	0.50	0.050	mg/L		02/05/16 14:30	02/06/16 21:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 21:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:28	1
Cobalt	0.031		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:28	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 21:28	1
Lead	0.016		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 21:28	1
Manganese	7.8		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:28	1
Nickel	0.022	J	0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 21:28	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 21:28	1
Zinc	<0.50		0.50	0.020	mg/L		02/05/16 14:30	02/06/16 21:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.0098	mg/Kg	☼	02/03/16 16:15	02/04/16 11:02	1

TestAmerica Chicago

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Metals

Prep Batch: 321790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	Total/NA	Solid	7471B	
500-107086-1 DU	2746-01-B69 (0-2)	Total/NA	Solid	7471B	
500-107086-1 MS	2746-01-B69 (0-2)	Total/NA	Solid	7471B	
500-107086-1 MSD	2746-01-B69 (0-2)	Total/NA	Solid	7471B	
500-107086-2	2746-01-B70 (0-2)	Total/NA	Solid	7471B	
500-107086-3	2746-01-B71 (0-8)	Total/NA	Solid	7471B	
500-107086-4	2746-01-B72 (0-8)	Total/NA	Solid	7471B	
500-107086-5	2746-01-B73 (0-8)	Total/NA	Solid	7471B	
500-107086-6	2746-01-B65 (0-8)	Total/NA	Solid	7471B	
500-107086-7	2746-01-B67 (0-8)	Total/NA	Solid	7471B	
500-107086-8	2746-01-B68 (0-5)	Total/NA	Solid	7471B	
500-107086-9	2746-01-B68 (5-10)	Total/NA	Solid	7471B	
500-107086-10	2746-01-B74 (0-8)	Total/NA	Solid	7471B	
500-107086-11	2746-18-B01 (0-8)	Total/NA	Solid	7471B	
500-107086-12	2746-18-B01 (0-8)D	Total/NA	Solid	7471B	
500-107086-13	2746-01-B75 (0-8)	Total/NA	Solid	7471B	
LCS 500-321790/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-321790/12-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 321905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	Total/NA	Solid	7471B	321790
500-107086-1 DU	2746-01-B69 (0-2)	Total/NA	Solid	7471B	321790
500-107086-1 MS	2746-01-B69 (0-2)	Total/NA	Solid	7471B	321790
500-107086-1 MSD	2746-01-B69 (0-2)	Total/NA	Solid	7471B	321790
500-107086-2	2746-01-B70 (0-2)	Total/NA	Solid	7471B	321790
500-107086-3	2746-01-B71 (0-8)	Total/NA	Solid	7471B	321790
500-107086-4	2746-01-B72 (0-8)	Total/NA	Solid	7471B	321790
500-107086-5	2746-01-B73 (0-8)	Total/NA	Solid	7471B	321790
500-107086-6	2746-01-B65 (0-8)	Total/NA	Solid	7471B	321790
500-107086-7	2746-01-B67 (0-8)	Total/NA	Solid	7471B	321790
500-107086-8	2746-01-B68 (0-5)	Total/NA	Solid	7471B	321790
500-107086-9	2746-01-B68 (5-10)	Total/NA	Solid	7471B	321790
500-107086-10	2746-01-B74 (0-8)	Total/NA	Solid	7471B	321790
500-107086-11	2746-18-B01 (0-8)	Total/NA	Solid	7471B	321790
500-107086-12	2746-18-B01 (0-8)D	Total/NA	Solid	7471B	321790
500-107086-13	2746-01-B75 (0-8)	Total/NA	Solid	7471B	321790
LCS 500-321790/13-A	Lab Control Sample	Total/NA	Solid	7471B	321790
MB 500-321790/12-A	Method Blank	Total/NA	Solid	7471B	321790

Leach Batch: 321921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	TCLP	Solid	1311	
500-107086-2	2746-01-B70 (0-2)	TCLP	Solid	1311	
500-107086-3	2746-01-B71 (0-8)	TCLP	Solid	1311	
500-107086-4	2746-01-B72 (0-8)	TCLP	Solid	1311	
500-107086-5	2746-01-B73 (0-8)	TCLP	Solid	1311	
500-107086-5 DU	2746-01-B73 (0-8)	TCLP	Solid	1311	
500-107086-5 MS	2746-01-B73 (0-8)	TCLP	Solid	1311	
500-107086-6	2746-01-B65 (0-8)	TCLP	Solid	1311	
500-107086-7	2746-01-B67 (0-8)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Metals (Continued)

Leach Batch: 321921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-8	2746-01-B68 (0-5)	TCLP	Solid	1311	
500-107086-9	2746-01-B68 (5-10)	TCLP	Solid	1311	
500-107086-10	2746-01-B74 (0-8)	TCLP	Solid	1311	
500-107086-11	2746-18-B01 (0-8)	TCLP	Solid	1311	
500-107086-12	2746-18-B01 (0-8)D	TCLP	Solid	1311	
500-107086-13	2746-01-B75 (0-8)	TCLP	Solid	1311	
LB 500-321921/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 321953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	Total/NA	Solid	3050B	
500-107086-2	2746-01-B70 (0-2)	Total/NA	Solid	3050B	
500-107086-3	2746-01-B71 (0-8)	Total/NA	Solid	3050B	
500-107086-4	2746-01-B72 (0-8)	Total/NA	Solid	3050B	
500-107086-5	2746-01-B73 (0-8)	Total/NA	Solid	3050B	
500-107086-6	2746-01-B65 (0-8)	Total/NA	Solid	3050B	
500-107086-7	2746-01-B67 (0-8)	Total/NA	Solid	3050B	
500-107086-8	2746-01-B68 (0-5)	Total/NA	Solid	3050B	
500-107086-9	2746-01-B68 (5-10)	Total/NA	Solid	3050B	
500-107086-10	2746-01-B74 (0-8)	Total/NA	Solid	3050B	
500-107086-11	2746-18-B01 (0-8)	Total/NA	Solid	3050B	
500-107086-12	2746-18-B01 (0-8)D	Total/NA	Solid	3050B	
500-107086-13	2746-01-B75 (0-8)	Total/NA	Solid	3050B	
500-107086-13 DU	2746-01-B75 (0-8)	Total/NA	Solid	3050B	
500-107086-13 MS	2746-01-B75 (0-8)	Total/NA	Solid	3050B	
500-107086-13 MSD	2746-01-B75 (0-8)	Total/NA	Solid	3050B	
LCS 500-321953/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-321953/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 322129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	TCLP	Solid	3010A	321921
500-107086-2	2746-01-B70 (0-2)	TCLP	Solid	3010A	321921
500-107086-3	2746-01-B71 (0-8)	TCLP	Solid	3010A	321921
500-107086-4	2746-01-B72 (0-8)	TCLP	Solid	3010A	321921
500-107086-5	2746-01-B73 (0-8)	TCLP	Solid	3010A	321921
500-107086-5 DU	2746-01-B73 (0-8)	TCLP	Solid	3010A	321921
500-107086-5 MS	2746-01-B73 (0-8)	TCLP	Solid	3010A	321921
500-107086-6	2746-01-B65 (0-8)	TCLP	Solid	3010A	321921
500-107086-7	2746-01-B67 (0-8)	TCLP	Solid	3010A	321921
500-107086-8	2746-01-B68 (0-5)	TCLP	Solid	3010A	321921
500-107086-9	2746-01-B68 (5-10)	TCLP	Solid	3010A	321921
500-107086-10	2746-01-B74 (0-8)	TCLP	Solid	3010A	321921
500-107086-11	2746-18-B01 (0-8)	TCLP	Solid	3010A	321921
500-107086-12	2746-18-B01 (0-8)D	TCLP	Solid	3010A	321921
500-107086-13	2746-01-B75 (0-8)	TCLP	Solid	3010A	321921
LB 500-321921/1-C	Method Blank	TCLP	Solid	3010A	321921
LCS 500-322129/2-A	Lab Control Sample	Total/NA	Solid	3010A	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Metals (Continued)

Analysis Batch: 322189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	Total/NA	Solid	6010B	321953
500-107086-2	2746-01-B70 (0-2)	Total/NA	Solid	6010B	321953
500-107086-3	2746-01-B71 (0-8)	Total/NA	Solid	6010B	321953
500-107086-4	2746-01-B72 (0-8)	Total/NA	Solid	6010B	321953
500-107086-5	2746-01-B73 (0-8)	Total/NA	Solid	6010B	321953
500-107086-6	2746-01-B65 (0-8)	Total/NA	Solid	6010B	321953
500-107086-7	2746-01-B67 (0-8)	Total/NA	Solid	6010B	321953
500-107086-8	2746-01-B68 (0-5)	Total/NA	Solid	6010B	321953
500-107086-9	2746-01-B68 (5-10)	Total/NA	Solid	6010B	321953
500-107086-10	2746-01-B74 (0-8)	Total/NA	Solid	6010B	321953
500-107086-11	2746-18-B01 (0-8)	Total/NA	Solid	6010B	321953
500-107086-12	2746-18-B01 (0-8)D	Total/NA	Solid	6010B	321953
500-107086-13	2746-01-B75 (0-8)	Total/NA	Solid	6010B	321953
500-107086-13 DU	2746-01-B75 (0-8)	Total/NA	Solid	6010B	321953
500-107086-13 MS	2746-01-B75 (0-8)	Total/NA	Solid	6010B	321953
500-107086-13 MSD	2746-01-B75 (0-8)	Total/NA	Solid	6010B	321953
LCS 500-321953/2-A	Lab Control Sample	Total/NA	Solid	6010B	321953
MB 500-321953/1-A	Method Blank	Total/NA	Solid	6010B	321953

Analysis Batch: 322194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	TCLP	Solid	6010B	322129
500-107086-2	2746-01-B70 (0-2)	TCLP	Solid	6010B	322129
500-107086-3	2746-01-B71 (0-8)	TCLP	Solid	6010B	322129
500-107086-4	2746-01-B72 (0-8)	TCLP	Solid	6010B	322129
500-107086-5	2746-01-B73 (0-8)	TCLP	Solid	6010B	322129
500-107086-5 DU	2746-01-B73 (0-8)	TCLP	Solid	6010B	322129
500-107086-5 MS	2746-01-B73 (0-8)	TCLP	Solid	6010B	322129
500-107086-6	2746-01-B65 (0-8)	TCLP	Solid	6010B	322129
500-107086-7	2746-01-B67 (0-8)	TCLP	Solid	6010B	322129
500-107086-8	2746-01-B68 (0-5)	TCLP	Solid	6010B	322129
500-107086-9	2746-01-B68 (5-10)	TCLP	Solid	6010B	322129
500-107086-10	2746-01-B74 (0-8)	TCLP	Solid	6010B	322129
500-107086-11	2746-18-B01 (0-8)	TCLP	Solid	6010B	322129
500-107086-12	2746-18-B01 (0-8)D	TCLP	Solid	6010B	322129
500-107086-13	2746-01-B75 (0-8)	TCLP	Solid	6010B	322129
LB 500-321921/1-C	Method Blank	TCLP	Solid	6010B	322129
LCS 500-322129/2-A	Lab Control Sample	Total/NA	Solid	6010B	322129

Analysis Batch: 322304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107086-1	2746-01-B69 (0-2)	Total/NA	Solid	6010B	321953
500-107086-2	2746-01-B70 (0-2)	Total/NA	Solid	6010B	321953
500-107086-4	2746-01-B72 (0-8)	Total/NA	Solid	6010B	321953
500-107086-8	2746-01-B68 (0-5)	Total/NA	Solid	6010B	321953
500-107086-9	2746-01-B68 (5-10)	Total/NA	Solid	6010B	321953
500-107086-10	2746-01-B74 (0-8)	Total/NA	Solid	6010B	321953

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-107086-1	2746-01-B69 (0-2)	102	105	114	111
500-107086-2	2746-01-B70 (0-2)	99	106	114	111
500-107086-3	2746-01-B71 (0-8)	104	107	115	113
500-107086-4	2746-01-B72 (0-8)	101	106	111	107
500-107086-5	2746-01-B73 (0-8)	102	111	118	110
500-107086-6	2746-01-B65 (0-8)	102	106	116	108
500-107086-7	2746-01-B67 (0-8)	98	106	117	111
500-107086-8	2746-01-B68 (0-5)	103	106	116	108
500-107086-9	2746-01-B68 (5-10)	98	108	112	111
500-107086-10	2746-01-B74 (0-8)	99	106	115	105
500-107086-11	2746-18-B01 (0-8)	99	101	116	107
500-107086-13	2746-01-B75 (0-8)	100	106	112	111
LCS 500-321853/32	Lab Control Sample	108	106	107	112
MB 500-321853/7	Method Blank	106	104	109	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-120)	DBFM (75-120)	12DCE (75-125)	TOL (75-120)
500-107086-12	2746-18-B01 (0-8)D	93	93	96	99
LCS 500-322565/4	Lab Control Sample	96	98	97	99
MB 500-322565/6	Method Blank	95	97	97	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107086-1	2746-01-B69 (0-2)	76	81	114	98	92	99
500-107086-2	2746-01-B70 (0-2)	82	86	80	89	77	102
500-107086-3	2746-01-B71 (0-8)	86	78	83	117	61	105
500-107086-4	2746-01-B72 (0-8)	83	77	79	111	84	120
500-107086-5	2746-01-B73 (0-8)	81	82	76	79	93	111
500-107086-6	2746-01-B65 (0-8)	82	72	114	111	78	110
500-107086-7	2746-01-B67 (0-8)	84	85	104	103	106	118

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107086-8	2746-01-B68 (0-5)	106	98	93	78	95	126
500-107086-9	2746-01-B68 (5-10)	88	77	85	103	81	115
500-107086-10	2746-01-B74 (0-8)	101	90	76	126 X	91	127
500-107086-11	2746-18-B01 (0-8)	89	85	92	73	91	126
500-107086-11 - DL	2746-18-B01 (0-8)	89	98	75	116	110	150 X
500-107086-12	2746-18-B01 (0-8)D	89	88	89	101	116	132
500-107086-12 - DL	2746-18-B01 (0-8)D	104	107	75	85	127	183 X
500-107086-13	2746-01-B75 (0-8)	81	85	78	67	79	122
MB 500-321870/1-A	Method Blank	76	78	81	85	66	101

Surrogate Legend

- 2FP = 2-Fluorophenol
- PHL = Phenol-d5
- NBZ = Nitrobenzene-d5
- FBP = 2-Fluorobiphenyl
- TBP = 2,4,6-Tribromophenol
- TPH = Terphenyl-d14



QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-321953/1-A
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Barium	<1.0		1.0	0.18	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Boron	<5.0		5.0	0.70	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Calcium	8.90	J	20	6.4	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Chromium	0.488	J	1.0	0.17	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Copper	<1.0		1.0	0.22	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Iron	13.4	J	20	7.7	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Lead	<0.50		0.50	0.25	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Magnesium	4.52	J	10	4.1	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Potassium	<50		50	8.2	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Silver	<0.50		0.50	0.12	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Sodium	<100		100	13	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/04/16 15:37	02/05/16 19:10	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/04/16 15:37	02/05/16 19:10	1

Lab Sample ID: LCS 500-321953/2-A
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	47.3		mg/Kg		95	80 - 120
Arsenic	10.0	9.86		mg/Kg		99	80 - 120
Barium	200	188		mg/Kg		94	80 - 120
Beryllium	5.00	4.80		mg/Kg		96	80 - 120
Boron	100	88.6		mg/Kg		89	80 - 120
Cadmium	5.00	4.68		mg/Kg		94	80 - 120
Calcium	1000	908		mg/Kg		91	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	48.7		mg/Kg		97	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.44		mg/Kg		94	80 - 120
Magnesium	1000	903		mg/Kg		90	80 - 120
Manganese	50.0	46.8		mg/Kg		94	80 - 120
Nickel	50.0	48.8		mg/Kg		98	80 - 120
Potassium	1000	907		mg/Kg		91	80 - 120
Selenium	10.0	9.12		mg/Kg		91	80 - 120
Silver	5.00	4.60		mg/Kg		92	80 - 120
Sodium	1000	917		mg/Kg		92	80 - 120
Thallium	10.0	9.47		mg/Kg		95	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-321953/2-A
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120

Lab Sample ID: 500-107086-13 MS
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: 2746-01-B75 (0-8)
Prep Type: Total/NA
Prep Batch: 321953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.2	F1	27.9	5.19	F1	mg/Kg	☼	19	75 - 125
Arsenic	6.9	F1 F2	5.58	10.4	F1	mg/Kg	☼	64	75 - 125
Barium	71		112	163		mg/Kg	☼	82	75 - 125
Beryllium	0.72		2.79	2.95		mg/Kg	☼	80	75 - 125
Boron	8.4	F1	55.8	46.5	F1	mg/Kg	☼	68	75 - 125
Cadmium	0.099	J	2.79	2.25		mg/Kg	☼	77	75 - 125
Calcium	32000	B F2	558	28200	4	mg/Kg	☼	-619	75 - 125
Chromium	19	B	11.2	28.1		mg/Kg	☼	79	75 - 125
Cobalt	14	F1 F2	27.9	39.8		mg/Kg	☼	92	75 - 125
Copper	24		13.9	36.8		mg/Kg	☼	93	75 - 125
Iron	18000	B	55.8	17800	4	mg/Kg	☼	-130	75 - 125
Lead	72	F2	5.58	61.9	4	mg/Kg	☼	-173	75 - 125
Magnesium	19000	B	558	17900	4	mg/Kg	☼	-110	75 - 125
Manganese	310	F2	27.9	551	4	mg/Kg	☼	855	75 - 125
Nickel	35		27.9	59.2		mg/Kg	☼	87	75 - 125
Potassium	1900	F1	558	2740	F1	mg/Kg	☼	152	75 - 125
Selenium	0.72	F1	5.58	4.22	F1	mg/Kg	☼	63	75 - 125
Silver	<0.29		2.79	2.17		mg/Kg	☼	78	75 - 125
Sodium	2000	F1	558	2020	F1	mg/Kg	☼	7	75 - 125
Thallium	0.40	J	5.58	5.59		mg/Kg	☼	93	75 - 125
Vanadium	23		27.9	47.4		mg/Kg	☼	89	75 - 125
Zinc	70	F1	27.9	93.4		mg/Kg	☼	84	75 - 125

Lab Sample ID: 500-107086-13 MSD
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: 2746-01-B75 (0-8)
Prep Type: Total/NA
Prep Batch: 321953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<1.2	F1	28.1	5.74	F1	mg/Kg	☼	20	75 - 125	10	20
Arsenic	6.9	F1 F2	5.62	13.1	F2	mg/Kg	☼	111	75 - 125	23	20
Barium	71		112	176		mg/Kg	☼	93	75 - 125	8	20
Beryllium	0.72		2.81	2.88		mg/Kg	☼	77	75 - 125	3	20
Boron	8.4	F1	56.2	44.8	F1	mg/Kg	☼	65	75 - 125	4	20
Cadmium	0.099	J	2.81	2.36		mg/Kg	☼	81	75 - 125	5	20
Calcium	32000	B F2	562	23000	4 F2	mg/Kg	☼	-1553	75 - 125	21	20
Chromium	19	B	11.2	27.7		mg/Kg	☼	75	75 - 125	1	20
Cobalt	14	F1 F2	28.1	51.3	F1 F2	mg/Kg	☼	132	75 - 125	25	20
Copper	24		14.0	35.0		mg/Kg	☼	80	75 - 125	5	20
Iron	18000	B	56.2	16800	4	mg/Kg	☼	-1883	75 - 125	6	20
Lead	72	F2	5.62	44.1	4 F2	mg/Kg	☼	-487	75 - 125	33	20
Magnesium	19000	B	562	15300	4	mg/Kg	☼	-585	75 - 125	16	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107086-13 MSD
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: 2746-01-B75 (0-8)
Prep Type: Total/NA
Prep Batch: 321953

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Manganese	310	F2	28.1	738	4 F2	mg/Kg	☼	1516	75 - 125	29	20	
Nickel	35		28.1	63.9		mg/Kg	☼	103	75 - 125	8	20	
Potassium	1900	F1	562	2350		mg/Kg	☼	81	75 - 125	15	20	
Selenium	0.72	F1	5.62	4.36	F1	mg/Kg	☼	65	75 - 125	3	20	
Silver	<0.29		2.81	2.32		mg/Kg	☼	83	75 - 125	7	20	
Sodium	2000	F1	562	1840	F1	mg/Kg	☼	-26	75 - 125	9	20	
Thallium	0.40	J	5.62	5.41		mg/Kg	☼	89	75 - 125	3	20	
Vanadium	23		28.1	49.8		mg/Kg	☼	97	75 - 125	5	20	
Zinc	70	F1	28.1	90.0	F1	mg/Kg	☼	71	75 - 125	4	20	

Lab Sample ID: 500-107086-13 DU
Matrix: Solid
Analysis Batch: 322189

Client Sample ID: 2746-01-B75 (0-8)
Prep Type: Total/NA
Prep Batch: 321953

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<1.2	F1	<1.2		mg/Kg	☼	NC	20
Arsenic	6.9	F1 F2	5.83		mg/Kg	☼	17	20
Barium	71		85.1		mg/Kg	☼	18	20
Beryllium	0.72		0.699		mg/Kg	☼	3	20
Boron	8.4	F1	4.99	F3	mg/Kg	☼	51	20
Cadmium	0.099	J	0.149	F5	mg/Kg	☼	41	20
Calcium	32000	B F2	12400	F3	mg/Kg	☼	87	20
Chromium	19	B	18.8		mg/Kg	☼	2	20
Cobalt	14	F1 F2	10.8	F3	mg/Kg	☼	27	20
Copper	24		20.0		mg/Kg	☼	17	20
Iron	18000	B	16500		mg/Kg	☼	8	20
Lead	72	F2	41.4	F3	mg/Kg	☼	53	20
Magnesium	19000	B	7930	F3	mg/Kg	☼	80	20
Manganese	310	F2	340		mg/Kg	☼	8	20
Nickel	35		31.6		mg/Kg	☼	10	20
Potassium	1900	F1	1300	F3	mg/Kg	☼	37	20
Selenium	0.72	F1	<0.59		mg/Kg	☼	NC	20
Silver	<0.29		<0.29		mg/Kg	☼	NC	20
Sodium	2000	F1	1210	F3	mg/Kg	☼	48	20
Thallium	0.40	J	<0.59		mg/Kg	☼	NC	20
Vanadium	23		21.2		mg/Kg	☼	6	20
Zinc	70	F1	71.2		mg/Kg	☼	2	20

Lab Sample ID: LCS 500-322129/2-A
Matrix: Solid
Analysis Batch: 322194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322129

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Barium	0.500	0.492	J	mg/L		98	80 - 120
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Boron	1.00	0.930		mg/L		93	80 - 120
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322129/2-A
Matrix: Solid
Analysis Batch: 322194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.00	0.963		mg/L		96	80 - 120
Lead	0.100	0.0952		mg/L		95	80 - 120
Manganese	0.500	0.479		mg/L		96	80 - 120
Nickel	0.500	0.495		mg/L		99	80 - 120
Selenium	0.100	0.0951		mg/L		95	80 - 120
Silver	0.0500	0.0471		mg/L		94	80 - 120
Zinc	0.500	0.486	J	mg/L		97	80 - 120

Lab Sample ID: LB 500-321921/1-C
Matrix: Solid
Analysis Batch: 322194

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322129

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/05/16 14:30	02/06/16 19:45	1
Boron	<0.50		0.50	0.050	mg/L		02/05/16 14:30	02/06/16 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/05/16 14:30	02/06/16 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:45	1
Cobalt	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:45	1
Iron	<0.40		0.40	0.20	mg/L		02/05/16 14:30	02/06/16 19:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/05/16 14:30	02/06/16 19:45	1
Manganese	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:45	1
Nickel	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/05/16 14:30	02/06/16 19:45	1
Silver	<0.025		0.025	0.010	mg/L		02/05/16 14:30	02/06/16 19:45	1
Zinc	0.0422	J	0.50	0.020	mg/L		02/05/16 14:30	02/06/16 19:45	1

Lab Sample ID: 500-107086-5 MS
Matrix: Solid
Analysis Batch: 322194

Client Sample ID: 2746-01-B73 (0-8)
Prep Type: TCLP
Prep Batch: 322129

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.50		0.500	1.03		mg/L		106	50 - 150
Beryllium	<0.0040		0.0500	0.0504		mg/L		101	50 - 150
Boron	0.12	J	1.00	0.981		mg/L		86	50 - 150
Cadmium	<0.0050		0.0500	0.0521		mg/L		104	50 - 150
Chromium	<0.025		0.200	0.184		mg/L		92	50 - 150
Cobalt	0.024	J	0.500	0.544		mg/L		104	50 - 150
Iron	<0.40		1.00	0.968		mg/L		97	50 - 150
Lead	<0.0075		0.100	0.0974		mg/L		97	50 - 150
Manganese	7.2		0.500	8.36	4	mg/L		225	50 - 150
Nickel	0.023	J	0.500	0.528		mg/L		101	50 - 150
Selenium	<0.050		0.100	0.121		mg/L		121	50 - 150
Silver	<0.025		0.0500	0.0542		mg/L		108	50 - 150
Zinc	0.060	J B	0.500	0.587		mg/L		106	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107086-5 DU

Matrix: Solid

Analysis Batch: 322194

Client Sample ID: 2746-01-B73 (0-8)

Prep Type: TCLP

Prep Batch: 322129

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.50		0.532		mg/L		6	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.12	J	0.126	J	mg/L		3	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.024	J	0.0251		mg/L		4	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	7.2		7.77		mg/L		7	20
Nickel	0.023	J	0.0217	J	mg/L		7	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.060	J B	0.0612	J	mg/L		2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-321790/12-A

Matrix: Solid

Analysis Batch: 321905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 321790

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0088	mg/Kg		02/03/16 16:15	02/04/16 10:19	1

Lab Sample ID: LCS 500-321790/13-A

Matrix: Solid

Analysis Batch: 321905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 321790

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.167	0.174		mg/Kg		104	80 - 120

Lab Sample ID: 500-107086-1 MS

Matrix: Solid

Analysis Batch: 321905

Client Sample ID: 2746-01-B69 (0-2)

Prep Type: Total/NA

Prep Batch: 321790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Mercury	0.058		0.0933	0.148		mg/Kg	☼	96	75 - 125

Lab Sample ID: 500-107086-1 MSD

Matrix: Solid

Analysis Batch: 321905

Client Sample ID: 2746-01-B69 (0-2)

Prep Type: Total/NA

Prep Batch: 321790

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Mercury	0.058		0.0954	0.155		mg/Kg	☼	102	75 - 125	5	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-107086-1 DU
 Matrix: Solid
 Analysis Batch: 321905

Client Sample ID: 2746-01-B69 (0-2)
 Prep Type: Total/NA
 Prep Batch: 321790

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.058		0.0566		mg/Kg	☼	3	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B69 (0-2)

Lab Sample ID: 500-107086-1

Date Collected: 02/02/16 08:30

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 19:54	PJ1	TAL CHI

Client Sample ID: 2746-01-B69 (0-2)

Lab Sample ID: 500-107086-1

Date Collected: 02/02/16 08:30

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322304	02/06/16 05:43	PJ1	TAL CHI
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:18	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:23	MJD	TAL CHI

Client Sample ID: 2746-01-B70 (0-2)

Lab Sample ID: 500-107086-2

Date Collected: 02/02/16 08:40

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 19:59	PJ1	TAL CHI

Client Sample ID: 2746-01-B70 (0-2)

Lab Sample ID: 500-107086-2

Date Collected: 02/02/16 08:40

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322304	02/06/16 06:06	PJ1	TAL CHI
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:23	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:35	MJD	TAL CHI

Client Sample ID: 2746-01-B71 (0-8)

Lab Sample ID: 500-107086-3

Date Collected: 02/02/16 08:50

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B71 (0-8)

Lab Sample ID: 500-107086-3

Date Collected: 02/02/16 08:50

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:04	PJ1	TAL CHI

Client Sample ID: 2746-01-B71 (0-8)

Lab Sample ID: 500-107086-3

Date Collected: 02/02/16 08:50

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:28	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:37	MJD	TAL CHI

Client Sample ID: 2746-01-B72 (0-8)

Lab Sample ID: 500-107086-4

Date Collected: 02/02/16 09:00

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:09	PJ1	TAL CHI

Client Sample ID: 2746-01-B72 (0-8)

Lab Sample ID: 500-107086-4

Date Collected: 02/02/16 09:00

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322304	02/06/16 06:20	PJ1	TAL CHI
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:33	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:39	MJD	TAL CHI

Client Sample ID: 2746-01-B73 (0-8)

Lab Sample ID: 500-107086-5

Date Collected: 02/02/16 09:15

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:15	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B73 (0-8)

Lab Sample ID: 500-107086-5

Date Collected: 02/02/16 09:15

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:38	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:41	MJD	TAL CHI

Client Sample ID: 2746-01-B65 (0-8)

Lab Sample ID: 500-107086-6

Date Collected: 02/02/16 10:00

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:44	PJ1	TAL CHI

Client Sample ID: 2746-01-B65 (0-8)

Lab Sample ID: 500-107086-6

Date Collected: 02/02/16 10:00

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:43	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:43	MJD	TAL CHI

Client Sample ID: 2746-01-B67 (0-8)

Lab Sample ID: 500-107086-7

Date Collected: 02/02/16 10:15

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:49	PJ1	TAL CHI

Client Sample ID: 2746-01-B67 (0-8)

Lab Sample ID: 500-107086-7

Date Collected: 02/02/16 10:15

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:48	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:45	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B68 (0-5)

Lab Sample ID: 500-107086-8

Date Collected: 02/02/16 10:30

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:54	PJ1	TAL CHI

Client Sample ID: 2746-01-B68 (0-5)

Lab Sample ID: 500-107086-8

Date Collected: 02/02/16 10:30

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322304	02/06/16 06:47	PJ1	TAL CHI
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 19:52	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:47	MJD	TAL CHI

Client Sample ID: 2746-01-B68 (5-10)

Lab Sample ID: 500-107086-9

Date Collected: 02/02/16 10:35

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 20:59	PJ1	TAL CHI

Client Sample ID: 2746-01-B68 (5-10)

Lab Sample ID: 500-107086-9

Date Collected: 02/02/16 10:35

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322304	02/06/16 06:54	PJ1	TAL CHI
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 20:06	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:49	MJD	TAL CHI

Client Sample ID: 2746-01-B74 (0-8)

Lab Sample ID: 500-107086-10

Date Collected: 02/02/16 10:50

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-01-B74 (0-8)

Lab Sample ID: 500-107086-10

Date Collected: 02/02/16 10:50

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 21:04	PJ1	TAL CHI

Client Sample ID: 2746-01-B74 (0-8)

Lab Sample ID: 500-107086-10

Date Collected: 02/02/16 10:50

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322304	02/06/16 07:00	PJ1	TAL CHI
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 20:11	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:51	MJD	TAL CHI

Client Sample ID: 2746-18-B01 (0-8)

Lab Sample ID: 500-107086-11

Date Collected: 02/02/16 09:35

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 21:09	PJ1	TAL CHI

Client Sample ID: 2746-18-B01 (0-8)

Lab Sample ID: 500-107086-11

Date Collected: 02/02/16 09:35

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 20:16	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 10:57	MJD	TAL CHI

Client Sample ID: 2746-18-B01 (0-8)D

Lab Sample ID: 500-107086-12

Date Collected: 02/02/16 09:35

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 21:14	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Client Sample ID: 2746-18-B01 (0-8)D

Lab Sample ID: 500-107086-12

Date Collected: 02/02/16 09:35

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 20:21	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 11:00	MJD	TAL CHI

Client Sample ID: 2746-01-B75 (0-8)

Lab Sample ID: 500-107086-13

Date Collected: 02/02/16 11:15

Matrix: Solid

Date Received: 02/03/16 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			321921	02/04/16 14:05	BAT	TAL CHI
TCLP	Prep	3010A			322129	02/05/16 14:30	JNH	TAL CHI
TCLP	Analysis	6010B		1	322194	02/06/16 21:28	PJ1	TAL CHI

Client Sample ID: 2746-01-B75 (0-8)

Lab Sample ID: 500-107086-13

Date Collected: 02/02/16 11:15

Matrix: Solid

Date Received: 02/03/16 07:10

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			321953	02/04/16 15:37	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322189	02/05/16 20:25	KML	TAL CHI
Total/NA	Prep	7471B			321790	02/03/16 16:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	321905	02/04/16 11:02	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107086-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5



500-107086 COC

Report To (optional)
Contact: DT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107086
Chain of Custody Number: EE0506
Page _____ of _____
Temperature °C of Cooler: 3.3, 2.7

Client		Client Project #		Preservative		Parameter												Preservative Key		
EE		1009241-0005-01																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Project Location/State		Lab Project #		Lab PM														
T90		Cook County, IL		500 11815		D. Wright														
Sample		S. Coop-																		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	S.VOL	TOL/TA	Metals	TWP/SRP	TAL	Wash	P						Comments
			Date	Time																
1		2746-01-B69(0-2)	2-2-16	0830	2	S	X	X	X	X	X									
2		2746-01-B70(0-2)	2-2-16	0840	2	S	X	X	X	X	X									
3		2746-01-B71(0-8)	2-2-16	0850	2	S	X	X	X	X	X									
4		2746-01-B72(0-8)	2-2-16	0900	2	S	X	X	X	X	X									
5		2746-01-B73(0-8)	2-2-16	0915	2	S	X	X	X	X	X									
6		2746-01-B65(0-8)	2-2-16	1000	2	S	X	X	X	X	X									
7		2746-01-B67(0-8)	2-2-16	1015	2	S	X	X	X	X	X									
8		2746-01-B68(0-5)	2-2-16	1030	2	S	X	X	X	X	X									
9		2746-01-B68(5-10)	2-2-16	1035	2	S	X	X	X	X	X									
10		2746-01-B74(0-8)	2-2-16	1050	2	S	X	X	X	X	X									

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>2-2-16</u>	Time: <u>1430</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: <u>14:30</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: _____	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: <u>1603</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: <u>1712</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHT</u>	Date: <u>2/3/16</u>	Time: <u>0710</u>

Lab Courier: TA
Shipped: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SC - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
Lab Comments: _____



503325
2/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: DT
 Company: SC
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107086
 Chain of Custody Number: E905-08
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter						Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other			
Project Name		Lab Project #		Parameter		Parameter									
Project Location/State		Lab PM		Parameter		Parameter									
Sampler		Lab PM		Parameter		Parameter									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix							Comments		
			Date	Time											
13		2746-01-B75(0-8)	2-2-16	1115	2 S		VOC	S VOC	Total TAC	metals	TCAPI/SAP	TAC metals	ppm/% Solid		
2210															

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>2/2/16</u>	Time: <u>1430</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: <u>14:30</u>
Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>2/2/16</u>	Time: <u>170</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/2/16</u>	Time: <u>1603</u>
Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>2/2/16</u>	Time: <u>170</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CERT</u>	Date: <u>2/3/16</u>	Time: <u>0710</u>

Lab Courier: TA

Shipped: _____

Matrix Key

WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WL - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

Elmhurst



503325

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107086-1

Login Number: 107086

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3.2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107169-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/16/2016 4:01:50 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Job ID: 500-107169-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107169-1

Comments

No additional comments.

Receipt

The samples were received on 2/3/2016 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.4° C and 4.6° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 322736 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01-B83 (0-8) (500-107169-11) and 2746-01-B86 (6-12) (500-107169-19). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The continuing calibration verification (CCV) associated with batch 500-322292 recovered above the upper control limit for Iron. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2746-01A-B05 (0-8) (500-107169-1), 2746-01A-B04 (0-8) (500-107169-2) and 2746-01A-B03 (0-8) (500-107169-3).

Method(s) 6010B: The initial calibration verification (ICV) result for batch 500-322494 was outside of control limits for Calcium. All other QC, including bracketing continuing calibration verification (CCV) solutions were within control limits. The data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0097	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.021	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J F1	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.010	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0092	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7	F1	0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	68	F1	0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	9.3	F2	2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Calcium	43000	^	96	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	26	F1	0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	15	F1 F2	0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	4.8	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J F1	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	860	B F1	48	6.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.68		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.52		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0075	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.026	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.040	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J	0.040	0.0088	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	12		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B04 (0-8) (Continued)

Lab Sample ID: 500-107169-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.91		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	4.4		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.036	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	3000	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	19		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	22000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	40		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	2000	B	54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	32		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.088	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.016		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.84		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.33		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.036		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.031		0.017	0.0032	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.012	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.019	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.022	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.11		0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.54		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.46		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.29		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.34		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.37		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.31		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.17		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.16		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.45	0.083	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B03 (0-8) (Continued)

Lab Sample ID: 500-107169-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	9.0		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.041	J	0.091	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	22000	B	9.1	2.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.45	0.078	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.45	0.098	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		9.1	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	23		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000	B	4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.45	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56		0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Sodium	2300	B	45	6.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.23	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		0.91	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.098	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0084		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.6		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.028	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.080		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.63		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.89		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0070	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.027	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.43		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.34		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.17		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.40		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.16		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.61	J	1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.25		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	10		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.98		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	190000	B	110	36	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B76 (0-8) (Continued)

Lab Sample ID: 500-107169-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	40	B	0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.9		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	57		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	150		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	110000	B	57	23	mg/Kg	10	☼	6010B	Total/NA
Manganese	410		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	450		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	910	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	190		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.064	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0050		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.025		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	7.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.61		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.072		0.018	0.0034	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0075		0.0044	0.0016	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.019	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.041		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.034	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.021	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	65		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.095	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	49000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000	B	5.1	2.1	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B77 (0-8) (Continued)

Lab Sample ID: 500-107169-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	310		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.85		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	2600	B	51	6.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	66		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.10	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.051		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.015		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.048		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.027	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.26		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.039	J	0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.068		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.036	J	0.041	0.0056	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.052		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.066		0.041	0.0090	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.025	J	0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.037	J	0.041	0.0080	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	96		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.25	0.055	mg/Kg	1	☼	6010B	Total/NA
Boron	8.5		3.2	0.44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	J	0.13	0.037	mg/Kg	1	☼	6010B	Total/NA
Calcium	2600	B	13	4.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	24	B	0.63	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.32	0.071	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		13	4.9	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.32	0.16	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4900	B	6.3	2.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.63	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.63	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		32	5.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.74		0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100	B	63	8.3	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B78 (0-8) (Continued)

Lab Sample ID: 500-107169-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.51	J	0.63	0.31	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.32	0.092	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.076	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0086		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	4.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.070		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.046		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.19		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.068		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.016	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.063		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.070		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.080		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.024	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.060		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0083	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.6		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.48	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	7.8		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.074	J	0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	6900	B	9.6	3.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	20		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	23000		9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	35		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7900	B	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	740		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	47		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	2500	B	48	6.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.80		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	94		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B79 (0-8) (Continued)

Lab Sample ID: 500-107169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.094	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.028		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.77		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.040	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.14		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.031	J	0.040	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.30		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.26		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.040	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.16		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.18		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.10		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.066		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.068		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.76		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.043	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	3200		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	810	B	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.36	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0094		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.35		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.57		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B80 (0-8) (Continued)

Lab Sample ID: 500-107169-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.25		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.043		0.017	0.0034	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.0089	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.029	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.024	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.022	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.54	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.054	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.54	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.64		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600	B	54	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.90		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.014	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.14		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.033	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.27		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.31		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B82 (0-8) (Continued)

Lab Sample ID: 500-107169-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.15		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.21		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.10		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.070		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.073		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	7.6		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.48		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	91000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.9		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	38		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	310		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.27	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	B	52	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.52	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0026	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.029		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.67		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.034	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.40		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.43		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.77		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0099	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.035	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.30		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.44		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.15		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.54		0.19	0.070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.32		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B83 (0-8) (Continued)

Lab Sample ID: 500-107169-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.10		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.17		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.036	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.1		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	7.7		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.59		0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000	B	100	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.50	0.086	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	38		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	20000		10	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	380		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	470		0.50	0.099	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400	B	50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	130		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.078	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0045	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.10		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.77		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.045	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	1.0		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.58		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.051		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.73		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.029	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.017	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.020	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	92		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	9.4		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (0-6) (Continued)

Lab Sample ID: 500-107169-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	810		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.88		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	610	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.57	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.45		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.011	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.49	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000	B	97	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	13	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	17		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		9.7	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.49	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	40		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	160	B	49	6.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.084	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (6-12) (Continued)

Lab Sample ID: 500-107169-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.091		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.018	0.0096	mg/Kg	1	✳	7471B	Total/NA
pH	7.81		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0075	J	0.040	0.0074	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0081	J	0.040	0.0080	mg/Kg	1	✳	8270D	Total/NA
Arsenic	8.2		0.60	0.28	mg/Kg	1	✳	6010B	Total/NA
Barium	58		0.60	0.11	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.74		0.24	0.052	mg/Kg	1	✳	6010B	Total/NA
Boron	16		3.0	0.42	mg/Kg	1	✳	6010B	Total/NA
Calcium	63000	B	120	39	mg/Kg	10	✳	6010B	Total/NA
Chromium	18	B	0.60	0.10	mg/Kg	1	✳	6010B	Total/NA
Cobalt	9.2		0.30	0.068	mg/Kg	1	✳	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	✳	6010B	Total/NA
Iron	27000		12	4.7	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	✳	6010B	Total/NA
Magnesium	24000	B	6.0	2.5	mg/Kg	1	✳	6010B	Total/NA
Manganese	300		0.60	0.12	mg/Kg	1	✳	6010B	Total/NA
Nickel	31		0.60	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	2800		30	4.9	mg/Kg	1	✳	6010B	Total/NA
Sodium	180	B	60	8.0	mg/Kg	1	✳	6010B	Total/NA
Vanadium	20		0.30	0.088	mg/Kg	1	✳	6010B	Total/NA
Zinc	58		1.2	0.38	mg/Kg	1	✳	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.087	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.020	0.010	mg/Kg	1	✳	7471B	Total/NA
pH	7.85		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.012	J	0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.011	J	0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.3		0.50	0.23	mg/Kg	1	✳	6010B	Total/NA
Barium	47		0.50	0.092	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.66		0.20	0.043	mg/Kg	1	✳	6010B	Total/NA
Boron	14		2.5	0.35	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)D (Continued)

Lab Sample ID: 500-107169-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	66000	B	100	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.50	0.086	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.50	0.099	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	190	B	50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.072	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.019		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0074	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.033	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.034	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.050		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.016	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.030	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.022	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.4		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.52	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.039	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	430	B	52	6.8	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (0-8) (Continued)

Lab Sample ID: 500-107169-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.78		0.52	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.064		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.023	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.016	0.0031	mg/Kg	1	☼	8260B	Total/NA
2-Methylnaphthalene	0.027	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.036	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.010	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.50	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.50	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	50	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54		0.50	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.069	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.056		0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.015	J	0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (0-6) (Continued)

Lab Sample ID: 500-107169-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.036	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	52		0.48	0.088	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.036	J	0.096	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	96	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		9.6	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000	B	4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.48	0.095	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	330	B	48	6.3	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.37	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.62		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.097		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.061	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.021	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.62		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0040	J	0.015	0.0029	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.043		0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.12		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.067		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (6-12) (Continued)

Lab Sample ID: 500-107169-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	460		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.90		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	220	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.60		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.92		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Mercury	0.014	J	0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	7.84		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107169-1	2746-01A-B05 (0-8)	Solid	02/03/16 09:40	02/03/16 16:45
500-107169-2	2746-01A-B04 (0-8)	Solid	02/03/16 10:10	02/03/16 16:45
500-107169-3	2746-01A-B03 (0-8)	Solid	02/03/16 10:30	02/03/16 16:45
500-107169-4	2746-01-B76 (0-8)	Solid	02/03/16 11:15	02/03/16 16:45
500-107169-5	2746-01-B77 (0-8)	Solid	02/03/16 11:30	02/03/16 16:45
500-107169-6	2746-01-B78 (0-8)	Solid	02/03/16 11:45	02/03/16 16:45
500-107169-7	2746-01-B79 (0-8)	Solid	02/03/16 12:00	02/03/16 16:45
500-107169-8	2746-01-B80 (0-8)	Solid	02/03/16 12:15	02/03/16 16:45
500-107169-9	2746-01-B81 (0-8)	Solid	02/03/16 12:35	02/03/16 16:45
500-107169-10	2746-01-B82 (0-8)	Solid	02/03/16 12:55	02/03/16 16:45
500-107169-11	2746-01-B83 (0-8)	Solid	02/03/16 13:10	02/03/16 16:45
500-107169-12	2746-01-B84 (0-6)	Solid	02/03/16 13:50	02/03/16 16:45
500-107169-13	2746-01-B84 (6-12)	Solid	02/03/16 13:55	02/03/16 16:45
500-107169-14	2746-01-B84 (12-18)	Solid	02/03/16 14:05	02/03/16 16:45
500-107169-15	2746-01-B84 (12-18)D	Solid	02/03/16 14:05	02/03/16 16:45
500-107169-16	2746-01-B85 (0-8)	Solid	02/03/16 14:30	02/03/16 16:45
500-107169-17	2746-01-B85 (8-16)	Solid	02/03/16 14:40	02/03/16 16:45
500-107169-18	2746-01-B86 (0-6)	Solid	02/03/16 14:55	02/03/16 16:45
500-107169-19	2746-01-B86 (6-12)	Solid	02/03/16 15:05	02/03/16 16:45

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Date Collected: 02/03/16 09:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/03/16 17:10	02/13/16 20:55	1
Dibromofluoromethane	98		75 - 120	02/03/16 17:10	02/13/16 20:55	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/13/16 20:55	1
Toluene-d8 (Surr)	105		75 - 122	02/03/16 17:10	02/13/16 20:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Date Collected: 02/03/16 09:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2-Methylnaphthalene	0.0097	J	0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Pentachlorophenol	<0.79	F1	0.79	0.63	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
4,6-Dinitro-2-methylphenol	<0.79	F1	0.79	0.32	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Phenanthrene	0.025	J	0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Fluoranthene	0.021	J	0.039	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Pyrene	0.021	J F1	0.039	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Benzo[a]anthracene	0.010	J	0.039	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Date Collected: 02/03/16 09:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Benzo[b]fluoranthene	0.016	J	0.039	0.0085	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Benzo[a]pyrene	0.0092	J	0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Benzo[g,h,i]perylene	0.015	J	0.039	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	86		25 - 110				02/04/16 07:10	02/12/16 12:32	1
Phenol-d5	87		31 - 110				02/04/16 07:10	02/12/16 12:32	1
Nitrobenzene-d5	77		25 - 115				02/04/16 07:10	02/12/16 12:32	1
2-Fluorobiphenyl	69		25 - 119				02/04/16 07:10	02/12/16 12:32	1
2,4,6-Tribromophenol	71		35 - 137				02/04/16 07:10	02/12/16 12:32	1
Terphenyl-d14	78		36 - 134				02/04/16 07:10	02/12/16 12:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96	F1 F2	0.96	0.20	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Arsenic	6.7	F1	0.48	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Barium	68	F1	0.48	0.088	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Beryllium	0.68		0.19	0.042	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Boron	9.3	F2	2.4	0.34	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Cadmium	<0.096	F2	0.096	0.028	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Calcium	43000	^	96	31	mg/Kg	☼	02/05/16 08:59	02/11/16 12:42	10
Chromium	18	B	0.48	0.083	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Cobalt	13		0.24	0.054	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Copper	26	F1	0.48	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Iron	18000		9.6	3.7	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Lead	15	F1 F2	0.24	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Magnesium	20000	B	4.8	2.0	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Manganese	300		0.48	0.095	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Nickel	36		0.48	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Potassium	2900		24	3.9	mg/Kg	☼	02/05/16 08:59	02/11/16 11:52	1
Selenium	0.32	J F1	0.48	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Sodium	860	B F1	48	6.3	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Thallium	0.68		0.48	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Vanadium	22		0.24	0.070	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1
Zinc	59		0.96	0.30	mg/Kg	☼	02/05/16 08:59	02/07/16 03:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 14:24	1
Boron	0.074	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Date Collected: 02/03/16 09:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 14:24	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:24	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:24	1
Iron	<0.40	[^]	0.40	0.20	mg/L		02/08/16 08:30	02/09/16 14:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 14:24	1
Manganese	2.2		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:24	1
Nickel	0.026		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:24	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 14:24	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:24	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 14:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.017	J	0.025	0.010	mg/L		02/08/16 08:30	02/10/16 11:29	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 20:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 20:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0097	mg/Kg	☼	02/04/16 16:30	02/05/16 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52		0.200	0.200	SU			02/10/16 14:50	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Chloroethane	<0.0044	*	0.0044	0.0019	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/03/16 17:10	02/13/16 21:46	1
Dibromofluoromethane	97		75 - 120	02/03/16 17:10	02/13/16 21:46	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/03/16 17:10	02/13/16 21:46	1
Toluene-d8 (Surr)	102		75 - 122	02/03/16 17:10	02/13/16 21:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Isophorone	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,4,5-Trichlorophenol	<0.40		0.40	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Acenaphthylene	<0.040		0.040	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Dibenzofuran	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Phenanthrene	0.0075	J	0.040	0.0057	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Anthracene	<0.040		0.040	0.0068	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Fluoranthene	0.026	J	0.040	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Pyrene	0.020	J	0.040	0.0081	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Benzo[a]anthracene	0.013	J	0.040	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.040	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Benzo[b]fluoranthene	0.022	J	0.040	0.0088	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Benzo[a]pyrene	0.015	J	0.040	0.0079	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.040	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
Benzo[g,h,i]perylene	0.016	J	0.040	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/04/16 07:10	02/12/16 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/04/16 07:10	02/12/16 12:56	1
Phenol-d5	63		31 - 110	02/04/16 07:10	02/12/16 12:56	1
Nitrobenzene-d5	70		25 - 115	02/04/16 07:10	02/12/16 12:56	1
2-Fluorobiphenyl	67		25 - 119	02/04/16 07:10	02/12/16 12:56	1
2,4,6-Tribromophenol	53		35 - 137	02/04/16 07:10	02/12/16 12:56	1
Terphenyl-d14	78		36 - 134	02/04/16 07:10	02/12/16 12:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Arsenic	12		0.54	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Barium	130		0.54	0.098	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Beryllium	0.91		0.21	0.046	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Boron	4.4		2.7	0.37	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Cadmium	0.036	J	0.11	0.031	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Calcium	3000	B	11	3.4	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Chromium	21	B	0.54	0.092	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Cobalt	19		0.27	0.060	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Copper	26		0.54	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Iron	22000		11	4.1	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Lead	35		0.27	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Magnesium	4800	B	5.4	2.2	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Manganese	400		0.54	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Nickel	40		0.54	0.15	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Potassium	1900		27	4.4	mg/Kg	☼	02/05/16 08:59	02/11/16 13:15	1
Selenium	<0.54		0.54	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Sodium	2000	B	54	7.1	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Vanadium	32		0.27	0.078	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1
Zinc	81		1.1	0.34	mg/Kg	☼	02/05/16 08:59	02/07/16 03:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 14:45	1
Boron	0.088	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 80.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0022	J	0.0050	0.0020	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Iron	<0.40	[^]	0.40	0.20	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Lead	0.016		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Manganese	0.84		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:45	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/08/16 08:30	02/09/16 14:45	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/10/16 12:39	1
Manganese	0.33		0.025	0.010	mg/L	-	02/08/16 08:30	02/10/16 12:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/08/16 08:30	02/11/16 20:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/16 08:30	02/11/16 20:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/08/16 13:30	02/11/16 13:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.019	0.010	mg/Kg	☼	02/04/16 16:30	02/05/16 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU	-		02/10/16 14:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.031		0.017	0.0032	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Benzene	<0.0042		0.0042	0.00092	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Chloroethane	<0.0042	*	0.0042	0.0017	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Tetrachloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00096	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00080	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	02/03/16 17:10	02/13/16 22:12	1
Dibromofluoromethane	94		75 - 120	02/03/16 17:10	02/13/16 22:12	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/13/16 22:12	1
Toluene-d8 (Surr)	100		75 - 122	02/03/16 17:10	02/13/16 22:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Naphthalene	0.012	J	0.039	0.0060	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Acenaphthylene	0.012	J	0.039	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Acenaphthene	0.019	J	0.039	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Fluorene	0.022	J	0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Phenanthrene	0.24		0.039	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Anthracene	0.11		0.039	0.0065	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Fluoranthene	0.54		0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Pyrene	0.46		0.039	0.0077	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Benzo[a]anthracene	0.29		0.039	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.34		0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Benzo[b]fluoranthene	0.37		0.039	0.0084	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Benzo[k]fluoranthene	0.17		0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Benzo[a]pyrene	0.31		0.039	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Indeno[1,2,3-cd]pyrene	0.17		0.039	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Dibenz(a,h)anthracene	0.033	J	0.039	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
Benzo[g,h,i]perylene	0.16		0.039	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/04/16 07:10	02/12/16 13:21	1
Phenol-d5	76		31 - 110	02/04/16 07:10	02/12/16 13:21	1
Nitrobenzene-d5	72		25 - 115	02/04/16 07:10	02/12/16 13:21	1
2-Fluorobiphenyl	67		25 - 119	02/04/16 07:10	02/12/16 13:21	1
2,4,6-Tribromophenol	65		35 - 137	02/04/16 07:10	02/12/16 13:21	1
Terphenyl-d14	77		36 - 134	02/04/16 07:10	02/12/16 13:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Arsenic	5.9		0.45	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Barium	86		0.45	0.083	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Beryllium	0.65		0.18	0.039	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Boron	9.0		2.3	0.32	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Cadmium	0.041	J	0.091	0.026	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Calcium	22000	B	9.1	2.9	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Chromium	16	B	0.45	0.078	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Cobalt	12		0.23	0.051	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Copper	17		0.45	0.098	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Iron	15000		9.1	3.5	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Lead	23		0.23	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Magnesium	10000	B	4.5	1.8	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Manganese	330		0.45	0.090	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Nickel	28		0.45	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Potassium	1800		23	3.7	mg/Kg	☼	02/05/16 08:59	02/12/16 02:06	1
Selenium	0.56		0.45	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Sodium	2300	B	45	6.0	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Thallium	0.27	J	0.45	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Vanadium	22		0.23	0.066	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1
Zinc	79		0.91	0.29	mg/Kg	☼	02/05/16 08:59	02/07/16 04:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 14:50	1
Boron	0.098	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Iron	<0.40	^	0.40	0.20	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Lead	0.0084		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Manganese	4.6		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 14:50	1
Zinc	0.028	J	0.50	0.020	mg/L	-	02/08/16 08:30	02/09/16 14:50	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.080		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/10/16 12:45	1
Manganese	0.63		0.025	0.010	mg/L	-	02/08/16 08:30	02/10/16 12:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/08/16 08:30	02/11/16 20:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/16 08:30	02/11/16 20:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/08/16 13:30	02/11/16 13:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.019	0.010	mg/Kg	☼	02/04/16 16:30	02/05/16 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.89		0.200	0.200	SU	-		02/10/16 14:58	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Date Collected: 02/03/16 11:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/03/16 17:10	02/13/16 22:38	1
Dibromofluoromethane	96		75 - 120	02/03/16 17:10	02/13/16 22:38	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/03/16 17:10	02/13/16 22:38	1
Toluene-d8 (Surr)	107		75 - 122	02/03/16 17:10	02/13/16 22:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Date Collected: 02/03/16 11:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Fluorene	0.0070	J	0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Phenanthrene	0.15		0.039	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Anthracene	0.027	J	0.039	0.0065	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Fluoranthene	0.43		0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Pyrene	0.34		0.039	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Benzo[a]anthracene	0.17		0.039	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Date Collected: 02/03/16 11:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.24		0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Benzo[b]fluoranthene	0.40		0.039	0.0084	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Benzo[k]fluoranthene	0.16		0.039	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Benzo[a]pyrene	0.22		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Indeno[1,2,3-cd]pyrene	0.15		0.039	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Dibenz(a,h)anthracene	0.026	J	0.039	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
Benzo[g,h,i]perylene	0.17		0.039	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110	02/04/16 07:10	02/12/16 13:45	1
Phenol-d5	79		31 - 110	02/04/16 07:10	02/12/16 13:45	1
Nitrobenzene-d5	73		25 - 115	02/04/16 07:10	02/12/16 13:45	1
2-Fluorobiphenyl	70		25 - 119	02/04/16 07:10	02/12/16 13:45	1
2,4,6-Tribromophenol	80		35 - 137	02/04/16 07:10	02/12/16 13:45	1
Terphenyl-d14	82		36 - 134	02/04/16 07:10	02/12/16 13:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.1	0.23	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Arsenic	3.1		0.57	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Barium	81		0.57	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Beryllium	0.25		0.23	0.049	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Boron	10		2.8	0.40	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Cadmium	0.98		0.11	0.033	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Calcium	190000	B	110	36	mg/Kg	☼	02/05/16 08:59	02/12/16 02:16	10
Chromium	40	B	0.57	0.097	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Cobalt	2.9		0.28	0.064	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Copper	57		0.57	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Iron	16000		11	4.4	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Lead	150		0.28	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Magnesium	110000	B	57	23	mg/Kg	☼	02/05/16 08:59	02/12/16 02:16	10
Manganese	410		0.57	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Nickel	17		0.57	0.15	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Potassium	450		28	4.6	mg/Kg	☼	02/05/16 08:59	02/12/16 02:11	1
Selenium	0.45	J	0.57	0.28	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Sodium	910	B	57	7.5	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Vanadium	12		0.28	0.083	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1
Zinc	190		1.1	0.36	mg/Kg	☼	02/05/16 08:59	02/07/16 04:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 16:07	1
Boron	0.064	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Date Collected: 02/03/16 11:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 16:07	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:07	1
Cobalt	0.026		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:07	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 16:07	1
Lead	0.025		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 16:07	1
Manganese	7.5		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:07	1
Nickel	0.028		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:07	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 16:07	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:07	1
Zinc	0.15	J	0.50	0.020	mg/L		02/08/16 08:30	02/09/16 16:07	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/10/16 12:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/10/16 12:52	1
Manganese	0.017	J	0.025	0.010	mg/L		02/08/16 08:30	02/10/16 12:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 20:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 20:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0095	mg/Kg	☼	02/04/16 16:30	02/05/16 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			02/10/16 15:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.072		0.018	0.0034	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
2-Butanone (MEK)	0.0075		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Chloroethane	<0.0044	*	0.0044	0.0019	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122	02/03/16 17:10	02/13/16 23:04	1
Dibromofluoromethane	95		75 - 120	02/03/16 17:10	02/13/16 23:04	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/03/16 17:10	02/13/16 23:04	1
Toluene-d8 (Surr)	102		75 - 122	02/03/16 17:10	02/13/16 23:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Phenanthrene	0.019	J	0.038	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Fluoranthene	0.041		0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Pyrene	0.034	J	0.038	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Benzo[a]anthracene	0.021	J	0.038	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Benzo[b]fluoranthene	0.034	J	0.038	0.0082	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Benzo[a]pyrene	0.022	J	0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110				02/04/16 07:10	02/12/16 14:10	1
Phenol-d5	74		31 - 110				02/04/16 07:10	02/12/16 14:10	1
Nitrobenzene-d5	68		25 - 115				02/04/16 07:10	02/12/16 14:10	1
2-Fluorobiphenyl	63		25 - 119				02/04/16 07:10	02/12/16 14:10	1
2,4,6-Tribromophenol	60		35 - 137				02/04/16 07:10	02/12/16 14:10	1
Terphenyl-d14	78		36 - 134				02/04/16 07:10	02/12/16 14:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Arsenic	5.8		0.51	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Barium	65		0.51	0.094	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Beryllium	0.69		0.20	0.044	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Boron	11		2.6	0.36	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Cadmium	0.095	J	0.10	0.030	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Calcium	49000	B	100	33	mg/Kg	☼	02/05/16 08:59	02/12/16 02:26	10
Chromium	18	B	0.51	0.088	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Cobalt	12		0.26	0.058	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Copper	25		0.51	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Iron	17000		10	3.9	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Lead	130		0.26	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Magnesium	18000	B	5.1	2.1	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Manganese	310		0.51	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Nickel	30		0.51	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Potassium	2100		26	4.2	mg/Kg	☼	02/05/16 08:59	02/12/16 02:21	1
Selenium	0.85		0.51	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Sodium	2600	B	51	6.8	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Vanadium	22		0.26	0.075	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1
Zinc	66		1.0	0.32	mg/Kg	☼	02/05/16 08:59	02/07/16 04:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:07	1
Boron	0.10	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:07	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Cobalt	0.051		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Iron	<0.40		0.40	0.20	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Lead	0.015		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Manganese	4.3		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Nickel	0.048		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:07	1
Zinc	0.027	J	0.50	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:07	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.26		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/10/16 12:59	1
Manganese	0.61		0.025	0.010	mg/L	-	02/08/16 08:30	02/10/16 12:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/08/16 08:30	02/11/16 20:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/16 08:30	02/11/16 20:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/08/16 13:30	02/11/16 14:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0098	mg/Kg	☼	02/04/16 16:30	02/05/16 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU	-		02/10/16 15:04	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Chloroethane	<0.0044	*	0.0044	0.0019	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	02/03/16 17:10	02/13/16 23:30	1
Dibromofluoromethane	95		75 - 120	02/03/16 17:10	02/13/16 23:30	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/13/16 23:30	1
Toluene-d8 (Surr)	99		75 - 122	02/03/16 17:10	02/13/16 23:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Phenanthrene	0.039	J	0.041	0.0058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Fluoranthene	0.10		0.041	0.0077	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Pyrene	0.068		0.041	0.0082	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Benzo[a]anthracene	0.036	J	0.041	0.0056	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.052		0.041	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Benzo[b]fluoranthene	0.066		0.041	0.0090	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Benzo[k]fluoranthene	0.025 J		0.041	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Benzo[a]pyrene	0.037 J		0.041	0.0080	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Indeno[1,2,3-cd]pyrene	0.023 J		0.041	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
Benzo[g,h,i]perylene	0.018 J		0.041	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110	02/04/16 07:10	02/12/16 14:34	1
Phenol-d5	76		31 - 110	02/04/16 07:10	02/12/16 14:34	1
Nitrobenzene-d5	71		25 - 115	02/04/16 07:10	02/12/16 14:34	1
2-Fluorobiphenyl	64		25 - 119	02/04/16 07:10	02/12/16 14:34	1
2,4,6-Tribromophenol	64		35 - 137	02/04/16 07:10	02/12/16 14:34	1
Terphenyl-d14	81		36 - 134	02/04/16 07:10	02/12/16 14:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Arsenic	6.7		0.63	0.29	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Barium	96		0.63	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Beryllium	1.0		0.25	0.055	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Boron	8.5		3.2	0.44	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Cadmium	0.11 J		0.13	0.037	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Calcium	2600 B		13	4.1	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Chromium	24 B		0.63	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Cobalt	14		0.32	0.071	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Copper	23		0.63	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Iron	23000		13	4.9	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Lead	17		0.32	0.16	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Magnesium	4900 B		6.3	2.6	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Manganese	370		0.63	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Nickel	38		0.63	0.17	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Potassium	2100		32	5.1	mg/Kg	☼	02/05/16 08:59	02/12/16 02:30	1
Selenium	0.74		0.63	0.31	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Silver	<0.32		0.32	0.074	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Sodium	2100 B		63	8.3	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Thallium	0.51 J		0.63	0.31	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Vanadium	31		0.32	0.092	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1
Zinc	69		1.3	0.40	mg/Kg	☼	02/05/16 08:59	02/07/16 04:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23 J		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:12	1
Boron	0.076 J		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 79.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 15:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:12	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:12	1
Iron	0.22	J	0.40	0.20	mg/L		02/08/16 08:30	02/09/16 15:12	1
Lead	0.0086		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 15:12	1
Manganese	4.0		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:12	1
Nickel	0.019	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 15:12	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:12	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 15:12	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/10/16 13:06	1
Manganese	0.070		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 13:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 20:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 20:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046		0.020	0.011	mg/Kg	☼	02/04/16 16:30	02/05/16 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.19		0.200	0.200	SU			02/10/16 15:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Date Collected: 02/03/16 12:00

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Chloroethane	<0.0045	*	0.0045	0.0019	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	02/03/16 17:10	02/13/16 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/03/16 17:10	02/13/16 23:57	1
Dibromofluoromethane	95		75 - 120	02/03/16 17:10	02/13/16 23:57	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/03/16 17:10	02/13/16 23:57	1
Toluene-d8 (Surr)	103		75 - 122	02/03/16 17:10	02/13/16 23:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Date Collected: 02/03/16 12:00

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Phenanthrene	0.068		0.038	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Anthracene	0.016 J		0.038	0.0064	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Fluoranthene	0.13		0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Pyrene	0.15		0.038	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Benzo[a]anthracene	0.063		0.038	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Date Collected: 02/03/16 12:00

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.070		0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Benzo[b]fluoranthene	0.080		0.038	0.0083	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Benzo[k]fluoranthene	0.024 J		0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Benzo[a]pyrene	0.060		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Indeno[1,2,3-cd]pyrene	0.028 J		0.038	0.0099	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Dibenz(a,h)anthracene	0.0083 J		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Benzo[g,h,i]perylene	0.023 J		0.038	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110				02/04/16 07:10	02/12/16 14:59	1
Phenol-d5	78		31 - 110				02/04/16 07:10	02/12/16 14:59	1
Nitrobenzene-d5	71		25 - 115				02/04/16 07:10	02/12/16 14:59	1
2-Fluorobiphenyl	65		25 - 119				02/04/16 07:10	02/12/16 14:59	1
2,4,6-Tribromophenol	60		35 - 137				02/04/16 07:10	02/12/16 14:59	1
Terphenyl-d14	80		36 - 134				02/04/16 07:10	02/12/16 14:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Arsenic	8.6		0.48	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Barium	84		0.48	0.087	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Beryllium	0.85		0.19	0.041	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Boron	7.8		2.4	0.33	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Cadmium	0.074 J		0.096	0.028	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Calcium	6900 B		9.6	3.1	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Chromium	23 B		0.48	0.082	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Cobalt	20		0.24	0.054	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Copper	28		0.48	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Iron	23000		9.6	3.7	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Lead	35		0.24	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Magnesium	7900 B		4.8	1.9	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Manganese	740		0.48	0.095	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Nickel	47		0.48	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Potassium	1900		24	3.9	mg/Kg	☼	02/05/16 08:59	02/12/16 02:35	1
Selenium	0.35 J		0.48	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Sodium	2500 B		48	6.3	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Thallium	0.80		0.48	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Vanadium	24		0.24	0.070	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1
Zinc	94		0.96	0.30	mg/Kg	☼	02/05/16 08:59	02/07/16 04:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16 J		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:17	1
Boron	0.094 J		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Date Collected: 02/03/16 12:00

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0021	J	0.0050	0.0020	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Iron	<0.40		0.40	0.20	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Manganese	2.0		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:17	1
Zinc	0.039	J	0.50	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/10/16 13:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/08/16 08:30	02/11/16 16:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/16 08:30	02/11/16 16:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/08/16 13:30	02/11/16 13:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0094	mg/Kg	☼	02/04/16 16:30	02/05/16 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU	-		02/10/16 15:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Date Collected: 02/03/16 12:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0036	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Bromodichloromethane	<0.0046		0.0046	0.00078	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Bromoform	<0.0046		0.0046	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Carbon tetrachloride	<0.0046		0.0046	0.00099	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Chloroethane	<0.0046	*	0.0046	0.0019	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Chloroform	<0.0046		0.0046	0.00090	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,1-Dichloroethane	<0.0046		0.0046	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,2-Dichloroethane	<0.0046		0.0046	0.00069	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,3-Dichloropropane, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Tetrachloroethene	<0.0046		0.0046	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/03/16 17:10	02/14/16 00:22	1
Dibromofluoromethane	100		75 - 120	02/03/16 17:10	02/14/16 00:22	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/03/16 17:10	02/14/16 00:22	1
Toluene-d8 (Surr)	102		75 - 122	02/03/16 17:10	02/14/16 00:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Date Collected: 02/03/16 12:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Hexachloroethane	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Hexachlorobutadiene	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2-Methylnaphthalene	<0.040		0.040	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2-Nitroaniline	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.080	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2-Nitrophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,4-Dinitrophenol	<0.82		0.82	0.71	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Acenaphthene	0.011	J	0.040	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Fluorene	0.010	J	0.040	0.0057	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Hexachlorobenzene	<0.082		0.082	0.0094	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Diethyl phthalate	<0.20		0.20	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Phenanthrene	0.14		0.040	0.0056	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Anthracene	0.031	J	0.040	0.0068	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Fluoranthene	0.30		0.040	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Pyrene	0.26		0.040	0.0080	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Benzo[a]anthracene	0.14		0.040	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Date Collected: 02/03/16 12:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.040	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Benzo[b]fluoranthene	0.18		0.040	0.0087	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Benzo[k]fluoranthene	0.10		0.040	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Benzo[a]pyrene	0.13		0.040	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Indeno[1,2,3-cd]pyrene	0.066		0.040	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Dibenz(a,h)anthracene	0.012	J	0.040	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Benzo[g,h,i]perylene	0.068		0.040	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
3 & 4 Methylphenol	<0.20		0.20	0.068	mg/Kg	☼	02/04/16 07:10	02/12/16 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110				02/04/16 07:10	02/12/16 15:23	1
Phenol-d5	76		31 - 110				02/04/16 07:10	02/12/16 15:23	1
Nitrobenzene-d5	71		25 - 115				02/04/16 07:10	02/12/16 15:23	1
2-Fluorobiphenyl	66		25 - 119				02/04/16 07:10	02/12/16 15:23	1
2,4,6-Tribromophenol	56		35 - 137				02/04/16 07:10	02/12/16 15:23	1
Terphenyl-d14	80		36 - 134				02/04/16 07:10	02/12/16 15:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Arsenic	7.9		0.56	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Barium	51		0.56	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Beryllium	0.76		0.23	0.049	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Boron	14		2.8	0.39	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Cadmium	0.043	J	0.11	0.033	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Calcium	64000	B	110	36	mg/Kg	☼	02/05/16 08:59	02/12/16 02:53	10
Chromium	18	B	0.56	0.097	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Cobalt	11		0.28	0.064	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Copper	29		0.56	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Iron	20000		11	4.3	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Lead	24		0.28	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Magnesium	23000	B	5.6	2.3	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Manganese	280		0.56	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Nickel	31		0.56	0.15	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Potassium	3200		28	4.6	mg/Kg	☼	02/05/16 08:59	02/12/16 02:40	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Sodium	810	B	56	7.4	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Thallium	0.36	J	0.56	0.28	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Vanadium	23		0.28	0.082	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1
Zinc	64		1.1	0.36	mg/Kg	☼	02/05/16 08:59	02/07/16 04:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:23	1
Boron	0.081	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Date Collected: 02/03/16 12:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 15:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:23	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:23	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 15:23	1
Lead	0.0094		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 15:23	1
Manganese	0.35		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:23	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 15:23	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:23	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 15:23	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.35		0.0075	0.0075	mg/L		02/08/16 08:30	02/10/16 13:35	1
Manganese	0.57		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 13:35	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0097	mg/Kg	☼	02/04/16 16:30	02/05/16 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			02/10/16 15:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.043		0.017	0.0034	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Chloroethane	<0.0043	*	0.0043	0.0018	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Chloroform	<0.0043		0.0043	0.00085	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/03/16 17:10	02/14/16 01:14	1
Dibromofluoromethane	97		75 - 120	02/03/16 17:10	02/14/16 01:14	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/03/16 17:10	02/14/16 01:14	1
Toluene-d8 (Surr)	104		75 - 122	02/03/16 17:10	02/14/16 01:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Phenanthrene	0.0089	J	0.040	0.0056	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Fluoranthene	0.029	J	0.040	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Pyrene	0.024	J	0.040	0.0079	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.040	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Benzo[b]fluoranthene	0.022	J	0.040	0.0086	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Benzo[a]pyrene	0.015	J	0.040	0.0077	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110				02/04/16 07:10	02/12/16 15:48	1
Phenol-d5	62		31 - 110				02/04/16 07:10	02/12/16 15:48	1
Nitrobenzene-d5	71		25 - 115				02/04/16 07:10	02/12/16 15:48	1
2-Fluorobiphenyl	63		25 - 119				02/04/16 07:10	02/12/16 15:48	1
2,4,6-Tribromophenol	58		35 - 137				02/04/16 07:10	02/12/16 15:48	1
Terphenyl-d14	81		36 - 134				02/04/16 07:10	02/12/16 15:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Arsenic	6.3		0.54	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Barium	69		0.54	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Beryllium	0.85		0.22	0.047	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Boron	11		2.7	0.38	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Cadmium	0.054	J	0.11	0.032	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Calcium	25000	B	11	3.5	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Chromium	21	B	0.54	0.094	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Cobalt	16		0.27	0.062	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Copper	21		0.54	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Iron	21000		11	4.2	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Lead	13		0.27	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Magnesium	16000	B	5.4	2.2	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Manganese	320		0.54	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Nickel	37		0.54	0.15	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Potassium	2600		27	4.4	mg/Kg	☼	02/05/16 08:59	02/12/16 02:57	1
Selenium	0.64		0.54	0.27	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Sodium	1600	B	54	7.2	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Thallium	0.71		0.54	0.27	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Vanadium	23		0.27	0.079	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1
Zinc	60		1.1	0.34	mg/Kg	☼	02/05/16 08:59	02/07/16 04:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:28	1
Boron	0.075	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 15:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:28	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:28	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 15:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 15:28	1
Manganese	0.77		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:28	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 15:28	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:28	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 15:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 13:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.010	mg/Kg	☼	02/04/16 16:30	02/05/16 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			02/10/16 15:15	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 89.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0028	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Benzene	<0.0036		0.0036	0.00081	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Bromodichloromethane	<0.0036		0.0036	0.00062	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Bromoform	<0.0036		0.0036	0.00074	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Bromomethane	<0.0036		0.0036	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Carbon disulfide	<0.0036		0.0036	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Carbon tetrachloride	<0.0036		0.0036	0.00078	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Chlorobenzene	<0.0036		0.0036	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Chloroethane	<0.0036	*	0.0036	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Chloroform	<0.0036		0.0036	0.00071	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Chloromethane	<0.0036		0.0036	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00074	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00083	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Dibromochloromethane	<0.0036		0.0036	0.00042	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,1-Dichloroethane	<0.0036		0.0036	0.00075	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,2-Dichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,1-Dichloroethene	<0.0036		0.0036	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,2-Dichloropropane	<0.0036		0.0036	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,3-Dichloropropane, Total	<0.0036		0.0036	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Ethylbenzene	<0.0036		0.0036	0.00090	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Methylene Chloride	<0.0036		0.0036	0.0028	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00075	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Styrene	<0.0036		0.0036	0.00085	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,1,2,2-Tetrachloroethane	<0.0036		0.0036	0.00058	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Tetrachloroethene	<0.0036		0.0036	0.00076	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Toluene	<0.0036		0.0036	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00085	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00071	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Trichloroethene	<0.0036		0.0036	0.00099	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Vinyl acetate	<0.0036		0.0036	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Vinyl chloride	<0.0036		0.0036	0.00087	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1
Xylenes, Total	<0.0073		0.0073	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/03/16 17:10	02/14/16 01:40	1
Dibromofluoromethane	96		75 - 120	02/03/16 17:10	02/14/16 01:40	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/14/16 01:40	1
Toluene-d8 (Surr)	102		75 - 122	02/03/16 17:10	02/14/16 01:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Acenaphthene	0.014	J	0.036	0.0066	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Fluorene	0.012	J	0.036	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Phenanthrene	0.14		0.036	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Anthracene	0.033	J	0.036	0.0061	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Fluoranthene	0.27		0.036	0.0068	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Pyrene	0.31		0.036	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Benzo[a]anthracene	0.12		0.036	0.0049	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.15		0.036	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Benzo[b]fluoranthene	0.21		0.036	0.0079	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Benzo[k]fluoranthene	0.10		0.036	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Benzo[a]pyrene	0.13		0.036	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Indeno[1,2,3-cd]pyrene	0.070		0.036	0.0095	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
Benzo[g,h,i]perylene	0.073		0.036	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	02/04/16 07:10	02/12/16 16:12	1
Phenol-d5	72		31 - 110	02/04/16 07:10	02/12/16 16:12	1
Nitrobenzene-d5	64		25 - 115	02/04/16 07:10	02/12/16 16:12	1
2-Fluorobiphenyl	64		25 - 119	02/04/16 07:10	02/12/16 16:12	1
2,4,6-Tribromophenol	66		35 - 137	02/04/16 07:10	02/12/16 16:12	1
Terphenyl-d14	112		36 - 134	02/04/16 07:10	02/12/16 16:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Arsenic	5.4		0.52	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Barium	44		0.52	0.095	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Beryllium	0.43		0.21	0.045	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Boron	7.6		2.6	0.36	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Cadmium	0.48		0.10	0.030	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Calcium	91000	B	100	33	mg/Kg	☼	02/05/16 08:59	02/12/16 03:07	10
Chromium	14	B	0.52	0.089	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Cobalt	7.9		0.26	0.059	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Copper	38		0.52	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Iron	15000		10	4.0	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Lead	310		0.26	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Magnesium	37000	B	5.2	2.1	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Manganese	290		0.52	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Nickel	22		0.52	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Potassium	1200		26	4.2	mg/Kg	☼	02/05/16 08:59	02/12/16 03:02	1
Selenium	0.27	J	0.52	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Sodium	1200	B	52	6.8	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Thallium	0.28	J	0.52	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Vanadium	14		0.26	0.076	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1
Zinc	120		1.0	0.33	mg/Kg	☼	02/05/16 08:59	02/07/16 04:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.31	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:33	1
Boron	0.075	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 89.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0026	J	0.0050	0.0020	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Iron	<0.40		0.40	0.20	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Lead	0.029		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Manganese	0.67		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:33	1
Zinc	0.034	J	0.50	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:33	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.40		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/10/16 13:49	1
Manganese	0.43		0.025	0.010	mg/L	-	02/08/16 08:30	02/10/16 13:49	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/08/16 08:30	02/11/16 16:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/16 08:30	02/11/16 16:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/08/16 13:30	02/11/16 13:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0093	mg/Kg	☼	02/04/16 16:30	02/05/16 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.200	0.200	SU	-		02/10/16 15:18	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/03/16 17:10	02/14/16 02:06	1
Dibromofluoromethane	100		75 - 120	02/03/16 17:10	02/14/16 02:06	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/14/16 02:06	1
Toluene-d8 (Surr)	106		75 - 122	02/03/16 17:10	02/14/16 02:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Acenaphthene	0.011	J	0.038	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Fluorene	0.0099	J	0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Phenanthrene	0.15		0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Anthracene	0.035	J	0.038	0.0064	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Fluoranthene	0.30		0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Pyrene	0.44		0.038	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Benzo[a]anthracene	0.15		0.038	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19		0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Bis(2-ethylhexyl) phthalate	0.54		0.19	0.070	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Benzo[b]fluoranthene	0.32		0.038	0.0083	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Benzo[k]fluoranthene	0.10		0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Benzo[a]pyrene	0.17		0.038	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Indeno[1,2,3-cd]pyrene	0.11		0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Dibenz(a,h)anthracene	0.036	J	0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Benzo[g,h,i]perylene	0.12		0.038	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110				02/04/16 07:10	02/12/16 16:37	1
Phenol-d5	76		31 - 110				02/04/16 07:10	02/12/16 16:37	1
Nitrobenzene-d5	69		25 - 115				02/04/16 07:10	02/12/16 16:37	1
2-Fluorobiphenyl	66		25 - 119				02/04/16 07:10	02/12/16 16:37	1
2,4,6-Tribromophenol	73		35 - 137				02/04/16 07:10	02/12/16 16:37	1
Terphenyl-d14	137	X	36 - 134				02/04/16 07:10	02/12/16 16:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Arsenic	7.1		0.50	0.23	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Barium	78		0.50	0.091	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Beryllium	0.61		0.20	0.043	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Boron	7.7		2.5	0.35	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Cadmium	0.59		0.10	0.029	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Calcium	100000	B	100	32	mg/Kg	☼	02/05/16 08:59	02/12/16 03:17	10
Chromium	18	B	0.50	0.086	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Cobalt	12		0.25	0.056	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Copper	38		0.50	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Iron	20000		10	3.8	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Lead	380		0.25	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Magnesium	29000	B	5.0	2.0	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Manganese	470		0.50	0.099	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Nickel	36		0.50	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Potassium	1500		25	4.1	mg/Kg	☼	02/05/16 08:59	02/12/16 03:12	1
Selenium	0.51		0.50	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Sodium	1400	B	50	6.6	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Vanadium	17		0.25	0.073	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1
Zinc	130		1.0	0.32	mg/Kg	☼	02/05/16 08:59	02/07/16 04:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:38	1
Boron	0.078	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0045	J	0.0050	0.0020	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Iron	<0.40		0.40	0.20	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Lead	0.10		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Manganese	0.77		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Silver	<0.025		0.025	0.010	mg/L	-	02/08/16 08:30	02/09/16 15:38	1
Zinc	0.045	J	0.50	0.020	mg/L	-	02/08/16 08:30	02/09/16 15:38	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.0		0.0075	0.0075	mg/L	-	02/08/16 08:30	02/10/16 13:56	1
Manganese	0.58		0.025	0.010	mg/L	-	02/08/16 08:30	02/10/16 13:56	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/08/16 08:30	02/11/16 16:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/08/16 08:30	02/11/16 16:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/08/16 13:30	02/11/16 13:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.019	0.010	mg/Kg	☼	02/04/16 16:30	02/05/16 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.73		0.200	0.200	SU	-		02/10/16 15:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Date Collected: 02/03/16 13:50

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Chloroethane	<0.0043	*	0.0043	0.0018	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/03/16 17:10	02/14/16 02:32	1
Dibromofluoromethane	98		75 - 120	02/03/16 17:10	02/14/16 02:32	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/14/16 02:32	1
Toluene-d8 (Surr)	105		75 - 122	02/03/16 17:10	02/14/16 02:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Date Collected: 02/03/16 13:50

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Phenanthrene	0.018	J	0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Fluoranthene	0.029	J	0.039	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Pyrene	0.044		0.039	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Benzo[a]anthracene	0.017	J	0.039	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Date Collected: 02/03/16 13:50

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Benzo[b]fluoranthene	0.028	J	0.039	0.0085	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Benzo[a]pyrene	0.020	J	0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110				02/04/16 07:10	02/12/16 17:01	1
Phenol-d5	71		31 - 110				02/04/16 07:10	02/12/16 17:01	1
Nitrobenzene-d5	66		25 - 115				02/04/16 07:10	02/12/16 17:01	1
2-Fluorobiphenyl	59		25 - 119				02/04/16 07:10	02/12/16 17:01	1
2,4,6-Tribromophenol	57		35 - 137				02/04/16 07:10	02/12/16 17:01	1
Terphenyl-d14	128		36 - 134				02/04/16 07:10	02/12/16 17:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Arsenic	7.7		0.58	0.27	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Barium	92		0.58	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Beryllium	0.67		0.23	0.051	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Boron	9.4		2.9	0.41	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Cadmium	0.28		0.12	0.034	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Calcium	31000	B	12	3.8	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Chromium	16	B	0.58	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Cobalt	12		0.29	0.066	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Copper	25		0.58	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Iron	18000		12	4.5	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Lead	26		0.29	0.15	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Magnesium	16000	B	5.8	2.4	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Manganese	810		0.58	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Nickel	31		0.58	0.16	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Potassium	2000		29	4.8	mg/Kg	☼	02/05/16 08:59	02/12/16 03:21	1
Selenium	0.88		0.58	0.29	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Sodium	610	B	58	7.7	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Thallium	0.57	J	0.58	0.29	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Vanadium	22		0.29	0.085	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1
Zinc	59		1.2	0.37	mg/Kg	☼	02/05/16 08:59	02/07/16 04:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:43	1
Boron	0.060	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Date Collected: 02/03/16 13:50

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 15:43	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:43	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:43	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 15:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 15:43	1
Manganese	0.36		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:43	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 15:43	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:43	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 15:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0093	mg/Kg	☼	02/04/16 16:30	02/05/16 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			02/10/16 15:24	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/03/16 17:10	02/14/16 02:58	1
Dibromofluoromethane	98		75 - 120	02/03/16 17:10	02/14/16 02:58	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/03/16 17:10	02/14/16 02:58	1
Toluene-d8 (Surr)	106		75 - 122	02/03/16 17:10	02/14/16 02:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2-Methylnaphthalene	0.011	J	0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Phenanthrene	0.031	J	0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Pyrene	0.012	J	0.038	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110				02/04/16 07:10	02/12/16 17:26	1
Phenol-d5	81		31 - 110				02/04/16 07:10	02/12/16 17:26	1
Nitrobenzene-d5	73		25 - 115				02/04/16 07:10	02/12/16 17:26	1
2-Fluorobiphenyl	66		25 - 119				02/04/16 07:10	02/12/16 17:26	1
2,4,6-Tribromophenol	67		35 - 137				02/04/16 07:10	02/12/16 17:26	1
Terphenyl-d14	133		36 - 134				02/04/16 07:10	02/12/16 17:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Arsenic	8.0		0.49	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Barium	24		0.49	0.089	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Beryllium	0.57		0.19	0.042	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Boron	11		2.4	0.34	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Cadmium	<0.097		0.097	0.028	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Calcium	75000	B	97	31	mg/Kg	☼	02/05/16 08:59	02/12/16 03:31	10
Chromium	13	B	0.49	0.084	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Cobalt	17		0.24	0.055	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Copper	30		0.49	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Iron	17000		9.7	3.7	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Lead	16		0.24	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Magnesium	30000	B	4.9	2.0	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Manganese	560		0.49	0.096	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Nickel	40		0.49	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Potassium	2100		24	4.0	mg/Kg	☼	02/05/16 08:59	02/12/16 03:26	1
Selenium	0.33	J	0.49	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Sodium	160	B	49	6.4	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Thallium	0.62		0.49	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Vanadium	15		0.24	0.071	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1
Zinc	53		0.97	0.31	mg/Kg	☼	02/05/16 08:59	02/07/16 04:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:49	1
Boron	0.084	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 15:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:49	1
Cobalt	0.038		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:49	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 15:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 15:49	1
Manganese	1.9		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:49	1
Nickel	0.091		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 15:49	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:49	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 15:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.011	J	0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:33	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0096	mg/Kg	☼	02/04/16 16:30	02/09/16 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.81		0.200	0.200	SU			02/10/16 15:26	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Chloroethane	<0.0047	*	0.0047	0.0020	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/03/16 17:10	02/14/16 03:24	1
Dibromofluoromethane	93		75 - 120	02/03/16 17:10	02/14/16 03:24	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/03/16 17:10	02/14/16 03:24	1
Toluene-d8 (Surr)	106		75 - 122	02/03/16 17:10	02/14/16 03:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2-Methylnaphthalene	0.0075	J	0.040	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Phenanthrene	0.022	J	0.040	0.0056	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Pyrene	0.0081	J	0.040	0.0080	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/04/16 07:10	02/12/16 17:50	1
Phenol-d5	71		31 - 110	02/04/16 07:10	02/12/16 17:50	1
Nitrobenzene-d5	70		25 - 115	02/04/16 07:10	02/12/16 17:50	1
2-Fluorobiphenyl	64		25 - 119	02/04/16 07:10	02/12/16 17:50	1
2,4,6-Tribromophenol	53		35 - 137	02/04/16 07:10	02/12/16 17:50	1
Terphenyl-d14	121		36 - 134	02/04/16 07:10	02/12/16 17:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Arsenic	8.2		0.60	0.28	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Barium	58		0.60	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Beryllium	0.74		0.24	0.052	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Boron	16		3.0	0.42	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Calcium	63000	B	120	39	mg/Kg	☼	02/05/16 08:59	02/12/16 03:48	10
Chromium	18	B	0.60	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Cobalt	9.2		0.30	0.068	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Copper	24		0.60	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Iron	27000		12	4.7	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Lead	13		0.30	0.15	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Magnesium	24000	B	6.0	2.5	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Manganese	300		0.60	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Nickel	31		0.60	0.16	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Potassium	2800		30	4.9	mg/Kg	☼	02/05/16 08:59	02/12/16 03:35	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Sodium	180	B	60	8.0	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Vanadium	20		0.30	0.088	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1
Zinc	58		1.2	0.38	mg/Kg	☼	02/05/16 08:59	02/07/16 05:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 15:54	1
Boron	0.087	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 15:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:54	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:54	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 15:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 15:54	1
Manganese	1.7		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:54	1
Nickel	0.033		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 15:54	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 15:54	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 15:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.012	J	0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:16	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.010	mg/Kg	☼	02/04/16 16:30	02/09/16 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			02/10/16 15:29	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Benzene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Bromodichloromethane	<0.0046		0.0046	0.00077	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Bromoform	<0.0046		0.0046	0.00093	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Bromomethane	<0.0046		0.0046	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
2-Butanone (MEK)	<0.0046		0.0046	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Carbon disulfide	<0.0046		0.0046	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Carbon tetrachloride	<0.0046		0.0046	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Chlorobenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Chloroethane	<0.0046	*	0.0046	0.0019	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Chloroform	<0.0046		0.0046	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Chloromethane	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
cis-1,2-Dichloroethene	<0.0046		0.0046	0.00093	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
cis-1,3-Dichloropropene	<0.0046		0.0046	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Dibromochloromethane	<0.0046		0.0046	0.00053	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,1-Dichloroethane	<0.0046		0.0046	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,2-Dichloroethane	<0.0046		0.0046	0.00068	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,1-Dichloroethene	<0.0046		0.0046	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,2-Dichloropropane	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,3-Dichloropropene, Total	<0.0046		0.0046	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Ethylbenzene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Methylene Chloride	<0.0046		0.0046	0.0035	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
4-Methyl-2-pentanone (MIBK)	<0.0046		0.0046	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Methyl tert-butyl ether	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Styrene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,1,2,2-Tetrachloroethane	<0.0046		0.0046	0.00073	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Tetrachloroethene	<0.0046		0.0046	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Toluene	<0.0046		0.0046	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
trans-1,2-Dichloroethene	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
trans-1,3-Dichloropropene	<0.0046		0.0046	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,1,1-Trichloroethane	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
1,1,2-Trichloroethane	<0.0046		0.0046	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Trichloroethene	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Vinyl acetate	<0.0046		0.0046	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Vinyl chloride	<0.0046		0.0046	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1
Xylenes, Total	<0.0092		0.0092	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/03/16 17:10	02/14/16 03:50	1
Dibromofluoromethane	97		75 - 120	02/03/16 17:10	02/14/16 03:50	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/03/16 17:10	02/14/16 03:50	1
Toluene-d8 (Surr)	107		75 - 122	02/03/16 17:10	02/14/16 03:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2-Methylnaphthalene	0.012	J	0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Phenanthrene	0.023	J	0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Pyrene	0.011	J	0.039	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110				02/04/16 07:10	02/12/16 18:15	1
Phenol-d5	72		31 - 110				02/04/16 07:10	02/12/16 18:15	1
Nitrobenzene-d5	73		25 - 115				02/04/16 07:10	02/12/16 18:15	1
2-Fluorobiphenyl	69		25 - 119				02/04/16 07:10	02/12/16 18:15	1
2,4,6-Tribromophenol	45		35 - 137				02/04/16 07:10	02/12/16 18:15	1
Terphenyl-d14	126		36 - 134				02/04/16 07:10	02/12/16 18:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Arsenic	5.3		0.50	0.23	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Barium	47		0.50	0.092	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Beryllium	0.66		0.20	0.043	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Boron	14		2.5	0.35	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Calcium	66000	B	100	32	mg/Kg	☼	02/05/16 08:59	02/12/16 03:58	10
Chromium	18	B	0.50	0.086	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Cobalt	14		0.25	0.057	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Copper	24		0.50	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Iron	17000		10	3.9	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Lead	13		0.25	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Magnesium	24000	B	5.0	2.0	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Manganese	330		0.50	0.099	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Nickel	35		0.50	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Potassium	2800		25	4.1	mg/Kg	☼	02/05/16 08:59	02/12/16 03:53	1
Selenium	0.39	J	0.50	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Sodium	190	B	50	6.6	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Vanadium	20		0.25	0.073	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1
Zinc	51		1.0	0.32	mg/Kg	☼	02/05/16 08:59	02/07/16 05:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 16:12	1
Boron	0.072	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 16:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:12	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:12	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 16:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 16:12	1
Manganese	1.8		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:12	1
Nickel	0.040		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 16:12	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:12	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 16:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0093	mg/Kg	☼	02/04/16 16:30	02/09/16 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			02/10/16 15:32	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Date Collected: 02/03/16 14:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0036	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Bromodichloromethane	<0.0047		0.0047	0.00079	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Bromoform	<0.0047		0.0047	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Chloroethane	<0.0047	*	0.0047	0.0020	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Chloroform	<0.0047		0.0047	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,1-Dichloroethane	<0.0047		0.0047	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,2-Dichloroethane	<0.0047		0.0047	0.00069	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Methylene Chloride	<0.0047		0.0047	0.0035	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00074	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Tetrachloroethene	<0.0047		0.0047	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Vinyl acetate	<0.0047		0.0047	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/03/16 17:10	02/14/16 04:16	1
Dibromofluoromethane	99		75 - 120	02/03/16 17:10	02/14/16 04:16	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	02/03/16 17:10	02/14/16 04:16	1
Toluene-d8 (Surr)	105		75 - 122	02/03/16 17:10	02/14/16 04:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Date Collected: 02/03/16 14:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2-Methylnaphthalene	0.0074	J	0.037	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Phenanthrene	0.033	J	0.037	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Fluoranthene	0.034	J	0.037	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Pyrene	0.050		0.037	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Benzo[a]anthracene	0.016	J	0.037	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Date Collected: 02/03/16 14:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.024	J	0.037	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Benzo[b]fluoranthene	0.030	J	0.037	0.0081	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Benzo[a]pyrene	0.022	J	0.037	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110	02/04/16 07:10	02/12/16 18:39	1
Phenol-d5	62		31 - 110	02/04/16 07:10	02/12/16 18:39	1
Nitrobenzene-d5	67		25 - 115	02/04/16 07:10	02/12/16 18:39	1
2-Fluorobiphenyl	62		25 - 119	02/04/16 07:10	02/12/16 18:39	1
2,4,6-Tribromophenol	41		35 - 137	02/04/16 07:10	02/12/16 18:39	1
Terphenyl-d14	127		36 - 134	02/04/16 07:10	02/12/16 18:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Arsenic	4.4		0.52	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Barium	47		0.52	0.094	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Beryllium	0.70		0.21	0.045	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Boron	13		2.6	0.36	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Cadmium	0.039	J	0.10	0.030	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Calcium	67000	B	100	33	mg/Kg	☼	02/05/16 08:59	02/12/16 04:07	10
Chromium	18	B	0.52	0.089	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Cobalt	14		0.26	0.058	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Copper	24		0.52	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Iron	17000		10	4.0	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Lead	17		0.26	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Magnesium	25000	B	5.2	2.1	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Manganese	340		0.52	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Nickel	35		0.52	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Potassium	2700		26	4.2	mg/Kg	☼	02/05/16 08:59	02/12/16 04:02	1
Selenium	0.49	J	0.52	0.26	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Sodium	430	B	52	6.8	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Thallium	0.78		0.52	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Vanadium	19		0.26	0.075	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1
Zinc	51		1.0	0.33	mg/Kg	☼	02/05/16 08:59	02/07/16 05:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 16:18	1
Boron	0.057	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Date Collected: 02/03/16 14:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 16:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:18	1
Cobalt	0.030		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:18	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 16:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 16:18	1
Manganese	1.8		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:18	1
Nickel	0.064		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 16:18	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:18	1
Zinc	0.023	J	0.50	0.020	mg/L		02/08/16 08:30	02/09/16 16:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 16:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 16:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 14:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0096	mg/Kg	☼	02/04/16 16:30	02/09/16 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			02/10/16 15:35	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.016		0.016	0.0031	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/03/16 17:10	02/14/16 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/03/16 17:10	02/14/16 04:42	1
Dibromofluoromethane	97		75 - 120	02/03/16 17:10	02/14/16 04:42	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/03/16 17:10	02/14/16 04:42	1
Toluene-d8 (Surr)	105		75 - 122	02/03/16 17:10	02/14/16 04:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2-Methylnaphthalene	0.027	J	0.038	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Phenanthrene	0.036	J	0.038	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Pyrene	0.010	J	0.038	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		25 - 110				02/04/16 07:10	02/12/16 19:03	1
Phenol-d5	64		31 - 110				02/04/16 07:10	02/12/16 19:03	1
Nitrobenzene-d5	66		25 - 115				02/04/16 07:10	02/12/16 19:03	1
2-Fluorobiphenyl	63		25 - 119				02/04/16 07:10	02/12/16 19:03	1
2,4,6-Tribromophenol	49		35 - 137				02/04/16 07:10	02/12/16 19:03	1
Terphenyl-d14	123		36 - 134				02/04/16 07:10	02/12/16 19:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Arsenic	5.7		0.50	0.23	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Barium	49		0.50	0.091	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Beryllium	0.63		0.20	0.043	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Boron	14		2.5	0.35	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Calcium	66000	B	99	32	mg/Kg	☼	02/05/16 08:59	02/12/16 04:16	10
Chromium	17	B	0.50	0.085	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Cobalt	14		0.25	0.056	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Copper	24		0.50	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Iron	17000		9.9	3.8	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Lead	13		0.25	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Magnesium	24000	B	5.0	2.0	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Manganese	330		0.50	0.098	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Nickel	35		0.50	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Potassium	2800		25	4.0	mg/Kg	☼	02/05/16 08:59	02/12/16 04:11	1
Selenium	0.56		0.50	0.25	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Sodium	210	B	50	6.5	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Thallium	0.54		0.50	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Vanadium	19		0.25	0.072	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1
Zinc	49		0.99	0.31	mg/Kg	☼	02/05/16 08:59	02/07/16 05:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 16:23	1
Boron	0.069	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 16:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:23	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:23	1
Iron	<0.40		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 16:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 16:23	1
Manganese	1.8		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:23	1
Nickel	0.056		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 16:23	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:23	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 16:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 17:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 17:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 14:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.018	0.0095	mg/Kg	☼	02/04/16 16:30	02/09/16 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			02/10/16 15:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Chloroethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/03/16 17:10	02/14/16 05:08	1
Dibromofluoromethane	99		75 - 120	02/03/16 17:10	02/14/16 05:08	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/03/16 17:10	02/14/16 05:08	1
Toluene-d8 (Surr)	106		75 - 122	02/03/16 17:10	02/14/16 05:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Naphthalene	0.011	J	0.039	0.0060	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2-Methylnaphthalene	0.036	J	0.039	0.0072	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Phenanthrene	0.032	J	0.039	0.0055	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Pyrene	0.011	J	0.039	0.0078	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.039	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110				02/04/16 07:10	02/12/16 19:28	1
Phenol-d5	72		31 - 110				02/04/16 07:10	02/12/16 19:28	1
Nitrobenzene-d5	66		25 - 115				02/04/16 07:10	02/12/16 19:28	1
2-Fluorobiphenyl	65		25 - 119				02/04/16 07:10	02/12/16 19:28	1
2,4,6-Tribromophenol	54		35 - 137				02/04/16 07:10	02/12/16 19:28	1
Terphenyl-d14	128		36 - 134				02/04/16 07:10	02/12/16 19:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Arsenic	5.8		0.48	0.22	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Barium	52		0.48	0.088	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Beryllium	0.62		0.19	0.042	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Boron	14		2.4	0.34	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Cadmium	0.036	J	0.096	0.028	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Calcium	66000	B	96	31	mg/Kg	☼	02/05/16 08:59	02/12/16 04:25	10
Chromium	17	B	0.48	0.082	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Cobalt	15		0.24	0.054	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Copper	24		0.48	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Iron	16000		9.6	3.7	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Lead	13		0.24	0.12	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Magnesium	24000	B	4.8	1.9	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Manganese	320		0.48	0.095	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Nickel	38		0.48	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Potassium	2700		24	3.9	mg/Kg	☼	02/05/16 08:59	02/12/16 04:20	1
Selenium	0.58		0.48	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Sodium	330	B	48	6.3	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Thallium	0.56		0.48	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Vanadium	19		0.24	0.070	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1
Zinc	52		0.96	0.30	mg/Kg	☼	02/05/16 08:59	02/07/16 05:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.37	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 16:28	1
Boron	<0.50		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 16:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:28	1
Cobalt	0.032		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:28	1
Iron	0.62		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 16:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 16:28	1
Manganese	2.1		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:28	1
Nickel	0.097		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 16:28	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:28	1
Zinc	0.061	J	0.50	0.020	mg/L		02/08/16 08:30	02/09/16 16:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.021	J	0.025	0.010	mg/L		02/08/16 08:30	02/10/16 14:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 17:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 17:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 14:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.010	mg/Kg	☼	02/04/16 16:30	02/09/16 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.62		0.200	0.200	SU			02/10/16 15:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0040	J	0.015	0.0029	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Chloroethane	<0.0037		0.0037	0.0016	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Chloroform	<0.0037		0.0037	0.00073	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,2-Dichloropropane	<0.0037		0.0037	0.00097	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,3-Dichloropropane, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Vinyl chloride	<0.0037		0.0037	0.00089	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1
Xylenes, Total	<0.0074		0.0074	0.0014	mg/Kg	☼	02/03/16 17:10	02/14/16 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/03/16 17:10	02/14/16 17:36	1
Dibromofluoromethane	99		75 - 120	02/03/16 17:10	02/14/16 17:36	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/03/16 17:10	02/14/16 17:36	1
Toluene-d8 (Surr)	105		75 - 122	02/03/16 17:10	02/14/16 17:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Naphthalene	0.043		0.038	0.0058	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2-Methylnaphthalene	0.12		0.038	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Phenanthrene	0.067		0.038	0.0053	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Pyrene	0.012 J		0.038	0.0075	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.010	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/04/16 07:10	02/12/16 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/04/16 07:10	02/12/16 19:52	1
Phenol-d5	73		31 - 110	02/04/16 07:10	02/12/16 19:52	1
Nitrobenzene-d5	67		25 - 115	02/04/16 07:10	02/12/16 19:52	1
2-Fluorobiphenyl	66		25 - 119	02/04/16 07:10	02/12/16 19:52	1
2,4,6-Tribromophenol	54		35 - 137	02/04/16 07:10	02/12/16 19:52	1
Terphenyl-d14	135	X	36 - 134	02/04/16 07:10	02/12/16 19:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Arsenic	9.4		0.58	0.27	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Barium	36		0.58	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Beryllium	0.60		0.23	0.050	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Boron	13		2.9	0.41	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Calcium	76000	B	120	37	mg/Kg	☼	02/05/16 08:59	02/12/16 04:42	10
Chromium	14	B	0.58	0.10	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Cobalt	13		0.29	0.066	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Copper	28		0.58	0.13	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Iron	17000		12	4.5	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Lead	15		0.29	0.14	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Magnesium	32000	B	5.8	2.4	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Manganese	460		0.58	0.11	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Nickel	34		0.58	0.16	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Potassium	2300		29	4.7	mg/Kg	☼	02/05/16 08:59	02/12/16 04:30	1
Selenium	0.90		0.58	0.29	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Sodium	220	B	58	7.7	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Thallium	0.60		0.58	0.29	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Vanadium	16		0.29	0.085	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1
Zinc	56		1.2	0.37	mg/Kg	☼	02/05/16 08:59	02/07/16 05:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 16:33	1
Boron	0.055	J	0.50	0.050	mg/L		02/08/16 08:30	02/09/16 16:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 16:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:33	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:33	1
Iron	0.92		0.40	0.20	mg/L		02/08/16 08:30	02/09/16 16:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 16:33	1
Manganese	0.016	J	0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:33	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 16:33	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 16:33	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 16:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 17:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 17:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0092	mg/Kg	☼	02/04/16 16:30	02/09/16 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			02/10/16 15:43	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

GC/MS VOA

Prep Batch: 321839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	5035	
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	5035	
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	5035	
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	5035	
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	5035	
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	5035	
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	5035	
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	5035	
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	5035	
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	5035	
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	5035	
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	5035	
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	5035	
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	5035	
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	5035	
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	5035	
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	5035	
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	5035	
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	5035	

Analysis Batch: 322736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	8260B	321839
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	8260B	321839
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	8260B	321839
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	8260B	321839
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	8260B	321839
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	8260B	321839
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	8260B	321839
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	8260B	321839
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	8260B	321839
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	8260B	321839
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	8260B	321839
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	8260B	321839
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	8260B	321839
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	8260B	321839
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	8260B	321839
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	8260B	321839
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	8260B	321839
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	8260B	321839
LCS 500-322736/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-322736/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-322736/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 322748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	8260B	321839
LCS 500-322748/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-322748/5	Method Blank	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

GC/MS Semi VOA

Prep Batch: 321852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	3541	
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	3541	
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	3541	
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	3541	
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	3541	
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	3541	
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	3541	
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	3541	
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	3541	
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	3541	
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	3541	
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	3541	
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	3541	
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	3541	
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	3541	
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	3541	
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	3541	
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	3541	
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	3541	
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	3541	
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	3541	
LCS 500-321852/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-321852/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 322596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-321852/2-A	Lab Control Sample	Total/NA	Solid	8270D	321852
MB 500-321852/1-A	Method Blank	Total/NA	Solid	8270D	321852

Analysis Batch: 322601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	8270D	321852
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	8270D	321852
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	8270D	321852
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	8270D	321852
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	8270D	321852
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	8270D	321852
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	8270D	321852
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	8270D	321852
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	8270D	321852
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	8270D	321852
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	8270D	321852
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	8270D	321852
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	8270D	321852
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	8270D	321852
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	8270D	321852
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	8270D	321852
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	8270D	321852
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	8270D	321852
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	8270D	321852
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	8270D	321852

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

GC/MS Semi VOA (Continued)

Analysis Batch: 322601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	8270D	321852

Metals

Prep Batch: 321942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	7471B	
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	7471B	
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	7471B	
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	7471B	
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	7471B	
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	7471B	
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	7471B	
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	7471B	
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	7471B	
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	7471B	
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	7471B	
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	7471B	
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	7471B	
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	7471B	
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	7471B	
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	7471B	
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	7471B	
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	7471B	
LCS 500-321942/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-321942/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 322038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	3050B	
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	3050B	
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	3050B	
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	3050B	
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	3050B	
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	3050B	
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	3050B	
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	3050B	
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	3050B	
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	3050B	
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	3050B	
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	3050B	
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	3050B	
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	3050B	
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	3050B	
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	3050B	
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Prep Batch: 322038 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	3050B	
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	3050B	
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	3050B	
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	3050B	
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	3050B	
LCS 500-322038/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322038/1-A	Method Blank	Total/NA	Solid	3050B	

Leach Batch: 322062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	TCLP	Solid	1311	
500-107169-1 DU	2746-01A-B05 (0-8)	TCLP	Solid	1311	
500-107169-1 MS	2746-01A-B05 (0-8)	TCLP	Solid	1311	
500-107169-2	2746-01A-B04 (0-8)	TCLP	Solid	1311	
500-107169-2 DU	2746-01A-B04 (0-8)	TCLP	Solid	1311	
500-107169-2 MS	2746-01A-B04 (0-8)	TCLP	Solid	1311	
500-107169-3	2746-01A-B03 (0-8)	TCLP	Solid	1311	
500-107169-4	2746-01-B76 (0-8)	TCLP	Solid	1311	
500-107169-6	2746-01-B78 (0-8)	TCLP	Solid	1311	
500-107169-7	2746-01-B79 (0-8)	TCLP	Solid	1311	
500-107169-8	2746-01-B80 (0-8)	TCLP	Solid	1311	
500-107169-9	2746-01-B81 (0-8)	TCLP	Solid	1311	
500-107169-10	2746-01-B82 (0-8)	TCLP	Solid	1311	
500-107169-11	2746-01-B83 (0-8)	TCLP	Solid	1311	
500-107169-12	2746-01-B84 (0-6)	TCLP	Solid	1311	
500-107169-13	2746-01-B84 (6-12)	TCLP	Solid	1311	
500-107169-14	2746-01-B84 (12-18)	TCLP	Solid	1311	
500-107169-15	2746-01-B84 (12-18)D	TCLP	Solid	1311	
500-107169-16	2746-01-B85 (0-8)	TCLP	Solid	1311	
500-107169-17	2746-01-B85 (8-16)	TCLP	Solid	1311	
500-107169-18	2746-01-B86 (0-6)	TCLP	Solid	1311	
500-107169-19	2746-01-B86 (6-12)	TCLP	Solid	1311	
LB 500-322062/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322062/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-5	2746-01-B77 (0-8)	TCLP	Solid	1311	
LB2 500-322064/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-322064/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	SPLP East	Solid	1312	
500-107169-1 DU	2746-01A-B05 (0-8)	SPLP East	Solid	1312	
500-107169-1 MS	2746-01A-B05 (0-8)	SPLP East	Solid	1312	
500-107169-2	2746-01A-B04 (0-8)	SPLP East	Solid	1312	
500-107169-3	2746-01A-B03 (0-8)	SPLP East	Solid	1312	
500-107169-4	2746-01-B76 (0-8)	SPLP East	Solid	1312	
500-107169-5	2746-01-B77 (0-8)	SPLP East	Solid	1312	
500-107169-6	2746-01-B78 (0-8)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Leach Batch: 322068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-7	2746-01-B79 (0-8)	SPLP East	Solid	1312	
500-107169-8	2746-01-B80 (0-8)	SPLP East	Solid	1312	
500-107169-9	2746-01-B81 (0-8)	SPLP East	Solid	1312	
500-107169-10	2746-01-B82 (0-8)	SPLP East	Solid	1312	
500-107169-11	2746-01-B83 (0-8)	SPLP East	Solid	1312	
500-107169-12	2746-01-B84 (0-6)	SPLP East	Solid	1312	
500-107169-13	2746-01-B84 (6-12)	SPLP East	Solid	1312	
500-107169-14	2746-01-B84 (12-18)	SPLP East	Solid	1312	
500-107169-15	2746-01-B84 (12-18)D	SPLP East	Solid	1312	
500-107169-16	2746-01-B85 (0-8)	SPLP East	Solid	1312	
500-107169-17	2746-01-B85 (8-16)	SPLP East	Solid	1312	
500-107169-18	2746-01-B86 (0-6)	SPLP East	Solid	1312	
LB 500-322068/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 322097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	TCLP	Solid	3010A	322062
500-107169-1 DU	2746-01A-B05 (0-8)	TCLP	Solid	3010A	322062
500-107169-1 MS	2746-01A-B05 (0-8)	TCLP	Solid	3010A	322062
500-107169-2	2746-01A-B04 (0-8)	TCLP	Solid	3010A	322062
500-107169-3	2746-01A-B03 (0-8)	TCLP	Solid	3010A	322062
500-107169-4	2746-01-B76 (0-8)	TCLP	Solid	3010A	322062
500-107169-5	2746-01-B77 (0-8)	TCLP	Solid	3010A	322064
500-107169-6	2746-01-B78 (0-8)	TCLP	Solid	3010A	322062
500-107169-7	2746-01-B79 (0-8)	TCLP	Solid	3010A	322062
500-107169-8	2746-01-B80 (0-8)	TCLP	Solid	3010A	322062
500-107169-9	2746-01-B81 (0-8)	TCLP	Solid	3010A	322062
500-107169-10	2746-01-B82 (0-8)	TCLP	Solid	3010A	322062
500-107169-11	2746-01-B83 (0-8)	TCLP	Solid	3010A	322062
500-107169-12	2746-01-B84 (0-6)	TCLP	Solid	3010A	322062
500-107169-13	2746-01-B84 (6-12)	TCLP	Solid	3010A	322062
500-107169-14	2746-01-B84 (12-18)	TCLP	Solid	3010A	322062
500-107169-15	2746-01-B84 (12-18)D	TCLP	Solid	3010A	322062
500-107169-16	2746-01-B85 (0-8)	TCLP	Solid	3010A	322062
500-107169-17	2746-01-B85 (8-16)	TCLP	Solid	3010A	322062
500-107169-18	2746-01-B86 (0-6)	TCLP	Solid	3010A	322062
500-107169-19	2746-01-B86 (6-12)	TCLP	Solid	3010A	322062
LB 500-322062/1-B	Method Blank	TCLP	Solid	3010A	322062
LB2 500-322064/1-B	Method Blank	TCLP	Solid	3010A	322064
LCS 500-322097/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	SPLP East	Solid	3010A	322068
500-107169-1 DU	2746-01A-B05 (0-8)	SPLP East	Solid	3010A	322068
500-107169-1 MS	2746-01A-B05 (0-8)	SPLP East	Solid	3010A	322068
500-107169-2	2746-01A-B04 (0-8)	SPLP East	Solid	3010A	322068
500-107169-3	2746-01A-B03 (0-8)	SPLP East	Solid	3010A	322068
500-107169-4	2746-01-B76 (0-8)	SPLP East	Solid	3010A	322068
500-107169-5	2746-01-B77 (0-8)	SPLP East	Solid	3010A	322068
500-107169-6	2746-01-B78 (0-8)	SPLP East	Solid	3010A	322068

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Prep Batch: 322100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-7	2746-01-B79 (0-8)	SPLP East	Solid	3010A	322068
500-107169-8	2746-01-B80 (0-8)	SPLP East	Solid	3010A	322068
500-107169-9	2746-01-B81 (0-8)	SPLP East	Solid	3010A	322068
500-107169-10	2746-01-B82 (0-8)	SPLP East	Solid	3010A	322068
500-107169-11	2746-01-B83 (0-8)	SPLP East	Solid	3010A	322068
500-107169-12	2746-01-B84 (0-6)	SPLP East	Solid	3010A	322068
500-107169-13	2746-01-B84 (6-12)	SPLP East	Solid	3010A	322068
500-107169-14	2746-01-B84 (12-18)	SPLP East	Solid	3010A	322068
500-107169-15	2746-01-B84 (12-18)D	SPLP East	Solid	3010A	322068
500-107169-16	2746-01-B85 (0-8)	SPLP East	Solid	3010A	322068
500-107169-17	2746-01-B85 (8-16)	SPLP East	Solid	3010A	322068
500-107169-18	2746-01-B86 (0-6)	SPLP East	Solid	3010A	322068
LB 500-322068/1-B	Method Blank	SPLP East	Solid	3010A	322068
LCS 500-322100/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	TCLP	Solid	7470A	322062
500-107169-2	2746-01A-B04 (0-8)	TCLP	Solid	7470A	322062
500-107169-2 DU	2746-01A-B04 (0-8)	TCLP	Solid	7470A	322062
500-107169-2 MS	2746-01A-B04 (0-8)	TCLP	Solid	7470A	322062
500-107169-3	2746-01A-B03 (0-8)	TCLP	Solid	7470A	322062
500-107169-4	2746-01-B76 (0-8)	TCLP	Solid	7470A	322062
500-107169-5	2746-01-B77 (0-8)	TCLP	Solid	7470A	322064
500-107169-6	2746-01-B78 (0-8)	TCLP	Solid	7470A	322062
500-107169-7	2746-01-B79 (0-8)	TCLP	Solid	7470A	322062
500-107169-8	2746-01-B80 (0-8)	TCLP	Solid	7470A	322062
500-107169-9	2746-01-B81 (0-8)	TCLP	Solid	7470A	322062
500-107169-10	2746-01-B82 (0-8)	TCLP	Solid	7470A	322062
500-107169-11	2746-01-B83 (0-8)	TCLP	Solid	7470A	322062
500-107169-12	2746-01-B84 (0-6)	TCLP	Solid	7470A	322062
500-107169-13	2746-01-B84 (6-12)	TCLP	Solid	7470A	322062
500-107169-14	2746-01-B84 (12-18)	TCLP	Solid	7470A	322062
500-107169-15	2746-01-B84 (12-18)D	TCLP	Solid	7470A	322062
500-107169-16	2746-01-B85 (0-8)	TCLP	Solid	7470A	322062
500-107169-17	2746-01-B85 (8-16)	TCLP	Solid	7470A	322062
500-107169-18	2746-01-B86 (0-6)	TCLP	Solid	7470A	322062
500-107169-19	2746-01-B86 (6-12)	TCLP	Solid	7470A	322062
LB 500-322062/1-C	Method Blank	TCLP	Solid	7470A	322062
LB2 500-322064/1-C	Method Blank	TCLP	Solid	7470A	322064
LCS 500-322116/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322116/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 322195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	6010B	322038
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	6010B	322038

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Analysis Batch: 322195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	6010B	322038
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	6010B	322038
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	6010B	322038
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	6010B	322038
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	6010B	322038
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	6010B	322038
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	6010B	322038
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	6010B	322038
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	6010B	322038
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	6010B	322038
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	6010B	322038
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	6010B	322038
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	6010B	322038
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	6010B	322038
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	6010B	322038
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	6010B	322038
LCS 500-322038/2-A	Lab Control Sample	Total/NA	Solid	6010B	322038
MB 500-322038/1-A	Method Blank	Total/NA	Solid	6010B	322038

Analysis Batch: 322292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	TCLP	Solid	6010B	322097
500-107169-1 DU	2746-01A-B05 (0-8)	TCLP	Solid	6010B	322097
500-107169-1 MS	2746-01A-B05 (0-8)	TCLP	Solid	6010B	322097
500-107169-2	2746-01A-B04 (0-8)	TCLP	Solid	6010B	322097
500-107169-3	2746-01A-B03 (0-8)	TCLP	Solid	6010B	322097
500-107169-4	2746-01-B76 (0-8)	TCLP	Solid	6010B	322097
500-107169-5	2746-01-B77 (0-8)	TCLP	Solid	6010B	322097
500-107169-6	2746-01-B78 (0-8)	TCLP	Solid	6010B	322097
500-107169-7	2746-01-B79 (0-8)	TCLP	Solid	6010B	322097
500-107169-8	2746-01-B80 (0-8)	TCLP	Solid	6010B	322097
500-107169-9	2746-01-B81 (0-8)	TCLP	Solid	6010B	322097
500-107169-10	2746-01-B82 (0-8)	TCLP	Solid	6010B	322097
500-107169-11	2746-01-B83 (0-8)	TCLP	Solid	6010B	322097
500-107169-12	2746-01-B84 (0-6)	TCLP	Solid	6010B	322097
500-107169-13	2746-01-B84 (6-12)	TCLP	Solid	6010B	322097
500-107169-14	2746-01-B84 (12-18)	TCLP	Solid	6010B	322097
500-107169-15	2746-01-B84 (12-18)D	TCLP	Solid	6010B	322097
500-107169-16	2746-01-B85 (0-8)	TCLP	Solid	6010B	322097
500-107169-17	2746-01-B85 (8-16)	TCLP	Solid	6010B	322097
500-107169-18	2746-01-B86 (0-6)	TCLP	Solid	6010B	322097
500-107169-19	2746-01-B86 (6-12)	TCLP	Solid	6010B	322097
LB 500-322062/1-B	Method Blank	TCLP	Solid	6010B	322097
LB2 500-322064/1-B	Method Blank	TCLP	Solid	6010B	322097
LCS 500-322097/3-A	Lab Control Sample	Total/NA	Solid	6010B	322097

Analysis Batch: 322371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	SPLP East	Solid	6010B	322100
500-107169-1 DU	2746-01A-B05 (0-8)	SPLP East	Solid	6010B	322100
500-107169-1 MS	2746-01A-B05 (0-8)	SPLP East	Solid	6010B	322100

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Analysis Batch: 322371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-2	2746-01A-B04 (0-8)	SPLP East	Solid	6010B	322100
500-107169-3	2746-01A-B03 (0-8)	SPLP East	Solid	6010B	322100
500-107169-4	2746-01-B76 (0-8)	SPLP East	Solid	6010B	322100
500-107169-5	2746-01-B77 (0-8)	SPLP East	Solid	6010B	322100
500-107169-6	2746-01-B78 (0-8)	SPLP East	Solid	6010B	322100
500-107169-7	2746-01-B79 (0-8)	SPLP East	Solid	6010B	322100
500-107169-8	2746-01-B80 (0-8)	SPLP East	Solid	6010B	322100
500-107169-9	2746-01-B81 (0-8)	SPLP East	Solid	6010B	322100
500-107169-10	2746-01-B82 (0-8)	SPLP East	Solid	6010B	322100
500-107169-11	2746-01-B83 (0-8)	SPLP East	Solid	6010B	322100
500-107169-12	2746-01-B84 (0-6)	SPLP East	Solid	6010B	322100
500-107169-13	2746-01-B84 (6-12)	SPLP East	Solid	6010B	322100
500-107169-14	2746-01-B84 (12-18)	SPLP East	Solid	6010B	322100
500-107169-15	2746-01-B84 (12-18)D	SPLP East	Solid	6010B	322100
500-107169-16	2746-01-B85 (0-8)	SPLP East	Solid	6010B	322100
500-107169-17	2746-01-B85 (8-16)	SPLP East	Solid	6010B	322100
500-107169-18	2746-01-B86 (0-6)	SPLP East	Solid	6010B	322100
LB 500-322068/1-B	Method Blank	SPLP East	Solid	6010B	322100
LCS 500-322100/2-A	Lab Control Sample	Total/NA	Solid	6010B	322100

Analysis Batch: 322469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	321942
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	321942
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	321942
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	7471B	321942
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	7471B	321942
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	7471B	321942
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	7471B	321942
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	7471B	321942
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	7471B	321942
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	7471B	321942
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	7471B	321942
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	7471B	321942
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	7471B	321942
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	7471B	321942
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	7471B	321942
LCS 500-321942/13-A	Lab Control Sample	Total/NA	Solid	7471B	321942
MB 500-321942/12-A	Method Blank	Total/NA	Solid	7471B	321942

Analysis Batch: 322479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	7471B	321942
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	7471B	321942
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	7471B	321942
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	7471B	321942
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	7471B	321942
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	7471B	321942
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	7471B	321942

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Analysis Batch: 322494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 MS	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-1 MSD	2746-01A-B05 (0-8)	Total/NA	Solid	6010B	322038
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	6010B	322038
LCS 500-322038/2-A	Lab Control Sample	Total/NA	Solid	6010B	322038
MB 500-322038/1-A	Method Blank	Total/NA	Solid	6010B	322038

Analysis Batch: 322589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	6010B	322038
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	6010B	322038
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	6010B	322038
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	6010B	322038
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	6010B	322038
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	6010B	322038
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	6010B	322038
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	6010B	322038
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	6010B	322038
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	6010B	322038
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	6010B	322038
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	6010B	322038
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	6010B	322038
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	6010B	322038
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	6010B	322038
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	6010B	322038
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	6010B	322038
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	6010B	322038
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	6010B	322038
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	6010B	322038
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	6010B	322038
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	6010B	322038
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	6010B	322038
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	6010B	322038
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	6010B	322038
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	6010B	322038
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	6010B	322038
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	6010B	322038
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	6010B	322038

Analysis Batch: 322594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	TCLP	Solid	6020A	322097
500-107169-1 DU	2746-01A-B05 (0-8)	TCLP	Solid	6020A	322097
500-107169-1 MS	2746-01A-B05 (0-8)	TCLP	Solid	6020A	322097
500-107169-2	2746-01A-B04 (0-8)	TCLP	Solid	6020A	322097
500-107169-3	2746-01A-B03 (0-8)	TCLP	Solid	6020A	322097

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Metals (Continued)

Analysis Batch: 322594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-4	2746-01-B76 (0-8)	TCLP	Solid	6020A	322097
500-107169-5	2746-01-B77 (0-8)	TCLP	Solid	6020A	322097
500-107169-6	2746-01-B78 (0-8)	TCLP	Solid	6020A	322097
500-107169-7	2746-01-B79 (0-8)	TCLP	Solid	6020A	322097
500-107169-8	2746-01-B80 (0-8)	TCLP	Solid	6020A	322097
500-107169-9	2746-01-B81 (0-8)	TCLP	Solid	6020A	322097
500-107169-10	2746-01-B82 (0-8)	TCLP	Solid	6020A	322097
500-107169-11	2746-01-B83 (0-8)	TCLP	Solid	6020A	322097
500-107169-12	2746-01-B84 (0-6)	TCLP	Solid	6020A	322097
500-107169-13	2746-01-B84 (6-12)	TCLP	Solid	6020A	322097
500-107169-14	2746-01-B84 (12-18)	TCLP	Solid	6020A	322097
500-107169-15	2746-01-B84 (12-18)D	TCLP	Solid	6020A	322097
500-107169-16	2746-01-B85 (0-8)	TCLP	Solid	6020A	322097
500-107169-17	2746-01-B85 (8-16)	TCLP	Solid	6020A	322097
500-107169-18	2746-01-B86 (0-6)	TCLP	Solid	6020A	322097
500-107169-19	2746-01-B86 (6-12)	TCLP	Solid	6020A	322097
LB 500-322062/1-B	Method Blank	TCLP	Solid	6020A	322097
LB2 500-322064/1-B	Method Blank	TCLP	Solid	6020A	322097
LCS 500-322097/3-A	Lab Control Sample	Total/NA	Solid	6020A	322097

Analysis Batch: 322627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	TCLP	Solid	7470A	322116
500-107169-2	2746-01A-B04 (0-8)	TCLP	Solid	7470A	322116
500-107169-2 DU	2746-01A-B04 (0-8)	TCLP	Solid	7470A	322116
500-107169-2 MS	2746-01A-B04 (0-8)	TCLP	Solid	7470A	322116
500-107169-3	2746-01A-B03 (0-8)	TCLP	Solid	7470A	322116
500-107169-4	2746-01-B76 (0-8)	TCLP	Solid	7470A	322116
500-107169-5	2746-01-B77 (0-8)	TCLP	Solid	7470A	322116
500-107169-6	2746-01-B78 (0-8)	TCLP	Solid	7470A	322116
500-107169-7	2746-01-B79 (0-8)	TCLP	Solid	7470A	322116
500-107169-8	2746-01-B80 (0-8)	TCLP	Solid	7470A	322116
500-107169-9	2746-01-B81 (0-8)	TCLP	Solid	7470A	322116
500-107169-10	2746-01-B82 (0-8)	TCLP	Solid	7470A	322116
500-107169-11	2746-01-B83 (0-8)	TCLP	Solid	7470A	322116
500-107169-12	2746-01-B84 (0-6)	TCLP	Solid	7470A	322116
500-107169-13	2746-01-B84 (6-12)	TCLP	Solid	7470A	322116
500-107169-14	2746-01-B84 (12-18)	TCLP	Solid	7470A	322116
500-107169-15	2746-01-B84 (12-18)D	TCLP	Solid	7470A	322116
500-107169-16	2746-01-B85 (0-8)	TCLP	Solid	7470A	322116
500-107169-17	2746-01-B85 (8-16)	TCLP	Solid	7470A	322116
500-107169-18	2746-01-B86 (0-6)	TCLP	Solid	7470A	322116
500-107169-19	2746-01-B86 (6-12)	TCLP	Solid	7470A	322116
LB 500-322062/1-C	Method Blank	TCLP	Solid	7470A	322116
LB2 500-322064/1-C	Method Blank	TCLP	Solid	7470A	322116
LCS 500-322116/13-A	Lab Control Sample	Total/NA	Solid	7470A	322116
MB 500-322116/12-A	Method Blank	Total/NA	Solid	7470A	322116

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

General Chemistry

Analysis Batch: 321877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	Moisture	
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	Moisture	
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	Moisture	
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	Moisture	
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	Moisture	
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	Moisture	
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	Moisture	
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	Moisture	
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	Moisture	
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	Moisture	
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	Moisture	
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	Moisture	
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	Moisture	
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	Moisture	
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	Moisture	
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	Moisture	
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	Moisture	
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	Moisture	
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	Moisture	
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	Moisture	

Analysis Batch: 322417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107169-1	2746-01A-B05 (0-8)	Total/NA	Solid	9045D	
500-107169-1 DU	2746-01A-B05 (0-8)	Total/NA	Solid	9045D	
500-107169-2	2746-01A-B04 (0-8)	Total/NA	Solid	9045D	
500-107169-3	2746-01A-B03 (0-8)	Total/NA	Solid	9045D	
500-107169-4	2746-01-B76 (0-8)	Total/NA	Solid	9045D	
500-107169-5	2746-01-B77 (0-8)	Total/NA	Solid	9045D	
500-107169-6	2746-01-B78 (0-8)	Total/NA	Solid	9045D	
500-107169-7	2746-01-B79 (0-8)	Total/NA	Solid	9045D	
500-107169-8	2746-01-B80 (0-8)	Total/NA	Solid	9045D	
500-107169-9	2746-01-B81 (0-8)	Total/NA	Solid	9045D	
500-107169-10	2746-01-B82 (0-8)	Total/NA	Solid	9045D	
500-107169-11	2746-01-B83 (0-8)	Total/NA	Solid	9045D	
500-107169-12	2746-01-B84 (0-6)	Total/NA	Solid	9045D	
500-107169-13	2746-01-B84 (6-12)	Total/NA	Solid	9045D	
500-107169-14	2746-01-B84 (12-18)	Total/NA	Solid	9045D	
500-107169-15	2746-01-B84 (12-18)D	Total/NA	Solid	9045D	
500-107169-16	2746-01-B85 (0-8)	Total/NA	Solid	9045D	
500-107169-17	2746-01-B85 (8-16)	Total/NA	Solid	9045D	
500-107169-18	2746-01-B86 (0-6)	Total/NA	Solid	9045D	
500-107169-19	2746-01-B86 (6-12)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-107169-1	2746-01A-B05 (0-8)	97	98	94	105
500-107169-2	2746-01A-B04 (0-8)	100	97	99	102
500-107169-3	2746-01A-B03 (0-8)	99	94	94	100
500-107169-4	2746-01-B76 (0-8)	94	96	95	107
500-107169-5	2746-01-B77 (0-8)	101	95	101	102
500-107169-6	2746-01-B78 (0-8)	99	95	94	99
500-107169-7	2746-01-B79 (0-8)	94	95	96	103
500-107169-8	2746-01-B80 (0-8)	100	100	95	102
500-107169-9	2746-01-B81 (0-8)	98	97	92	104
500-107169-10	2746-01-B82 (0-8)	96	96	94	102
500-107169-11	2746-01-B83 (0-8)	96	100	94	106
500-107169-12	2746-01-B84 (0-6)	96	98	94	105
500-107169-13	2746-01-B84 (6-12)	95	98	90	106
500-107169-14	2746-01-B84 (12-18)	95	93	92	106
500-107169-15	2746-01-B84 (12-18)D	96	97	94	107
500-107169-16	2746-01-B85 (0-8)	97	99	99	105
500-107169-17	2746-01-B85 (8-16)	94	97	93	105
500-107169-18	2746-01-B86 (0-6)	94	99	95	106
500-107169-19	2746-01-B86 (6-12)	95	99	93	105
LCS 500-322736/5	Lab Control Sample	102	86	79	106
LCS 500-322748/4	Lab Control Sample	99	92	84	106
LCSD 500-322736/6	Lab Control Sample Dup	100	90	81	105
MB 500-322736/7	Method Blank	97	90	82	103
MB 500-322748/5	Method Blank	98	95	86	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107169-1	2746-01A-B05 (0-8)	86	87	77	69	71	78
500-107169-1 MS	2746-01A-B05 (0-8)	70	73	67	62	80	130
500-107169-1 MSD	2746-01A-B05 (0-8)	76	78	71	63	74	124
500-107169-2	2746-01A-B04 (0-8)	77	63	70	67	53	78
500-107169-3	2746-01A-B03 (0-8)	75	76	72	67	65	77
500-107169-4	2746-01-B76 (0-8)	79	79	73	70	80	82
500-107169-5	2746-01-B77 (0-8)	76	74	68	63	60	78
500-107169-6	2746-01-B78 (0-8)	78	76	71	64	64	81
500-107169-7	2746-01-B79 (0-8)	77	78	71	65	60	80
500-107169-8	2746-01-B80 (0-8)	78	76	71	66	56	80
500-107169-9	2746-01-B81 (0-8)	76	62	71	63	58	81
500-107169-10	2746-01-B82 (0-8)	69	72	64	64	66	112

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107169-11	2746-01-B83 (0-8)	75	76	69	66	73	137 X
500-107169-12	2746-01-B84 (0-6)	70	71	66	59	57	128
500-107169-13	2746-01-B84 (6-12)	79	81	73	66	67	133
500-107169-14	2746-01-B84 (12-18)	75	71	70	64	53	121
500-107169-15	2746-01-B84 (12-18)D	79	72	73	69	45	126
500-107169-16	2746-01-B85 (0-8)	72	62	67	62	41	127
500-107169-17	2746-01-B85 (8-16)	72	64	66	63	49	123
500-107169-18	2746-01-B86 (0-6)	77	72	66	65	54	128
500-107169-19	2746-01-B86 (6-12)	75	73	67	66	54	135 X
LCS 500-321852/2-A	Lab Control Sample	80	83	85	81	87	97
MB 500-321852/1-A	Method Blank	71	76	71	74	61	91

Surrogate Legend

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322736/7
Matrix: Solid
Analysis Batch: 322736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/13/16 19:36	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/13/16 19:36	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/13/16 19:36	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/13/16 19:36	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/13/16 19:36	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/13/16 19:36	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/13/16 19:36	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/13/16 19:36	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/13/16 19:36	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/13/16 19:36	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/13/16 19:36	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/13/16 19:36	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/13/16 19:36	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/13/16 19:36	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/13/16 19:36	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/13/16 19:36	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/13/16 19:36	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/13/16 19:36	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/13/16 19:36	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/13/16 19:36	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/13/16 19:36	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/13/16 19:36	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/13/16 19:36	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/13/16 19:36	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/13/16 19:36	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/13/16 19:36	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/13/16 19:36	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/13/16 19:36	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/13/16 19:36	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/13/16 19:36	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/13/16 19:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		02/13/16 19:36	1
Dibromofluoromethane	90		75 - 120		02/13/16 19:36	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		02/13/16 19:36	1
Toluene-d8 (Surr)	103		75 - 122		02/13/16 19:36	1

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322736/5

Matrix: Solid

Analysis Batch: 322736

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0665		mg/Kg		133	50 - 133
Benzene	0.0500	0.0601		mg/Kg		120	70 - 120
Bromodichloromethane	0.0500	0.0516		mg/Kg		103	69 - 120
Bromoform	0.0500	0.0478		mg/Kg		96	51 - 127
Bromomethane	0.0500	0.0444		mg/Kg		89	69 - 120
2-Butanone (MEK)	0.0500	0.0608		mg/Kg		122	50 - 148
Carbon disulfide	0.0500	0.0552		mg/Kg		110	58 - 120
Carbon tetrachloride	0.0500	0.0452		mg/Kg		90	51 - 124
Chlorobenzene	0.0500	0.0556		mg/Kg		111	70 - 120
Chloroethane	0.0500	0.0718	*	mg/Kg		144	49 - 125
Chloroform	0.0500	0.0537		mg/Kg		107	70 - 120
Chloromethane	0.0500	0.0605		mg/Kg		121	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0546		mg/Kg		109	70 - 120
Dibromochloromethane	0.0500	0.0509		mg/Kg		102	69 - 126
1,1-Dichloroethane	0.0500	0.0547		mg/Kg		109	70 - 120
1,2-Dichloroethane	0.0500	0.0450		mg/Kg		90	70 - 128
1,1-Dichloroethene	0.0500	0.0505		mg/Kg		101	67 - 120
1,2-Dichloropropane	0.0500	0.0561		mg/Kg		112	70 - 120
Ethylbenzene	0.0500	0.0589		mg/Kg		118	70 - 120
2-Hexanone	0.0500	0.0585		mg/Kg		117	50 - 150
Methylene Chloride	0.0500	0.0575		mg/Kg		115	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0624		mg/Kg		125	50 - 150
Methyl tert-butyl ether	0.0500	0.0528		mg/Kg		106	70 - 120
Styrene	0.0500	0.0587		mg/Kg		117	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0542		mg/Kg		108	70 - 133
Tetrachloroethene	0.0500	0.0514		mg/Kg		103	70 - 120
Toluene	0.0500	0.0580		mg/Kg		116	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 120
1,1,1-Trichloroethane	0.0500	0.0473		mg/Kg		95	70 - 120
1,1,2-Trichloroethane	0.0500	0.0545		mg/Kg		109	70 - 120
Trichloroethene	0.0500	0.0555		mg/Kg		111	70 - 120
Vinyl acetate	0.0500	0.0414		mg/Kg		83	60 - 150
Vinyl chloride	0.0500	0.0547		mg/Kg		109	69 - 120
Xylenes, Total	0.100	0.114		mg/Kg		114	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 122
Dibromofluoromethane	86		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Lab Sample ID: LCSD 500-322736/6

Matrix: Solid

Analysis Batch: 322736

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0611		mg/Kg		122	50 - 133	8	30
Benzene	0.0500	0.0587		mg/Kg		117	70 - 120	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322736/6
Matrix: Solid
Analysis Batch: 322736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0498		mg/Kg		100	69 - 120	3	30
Bromoform	0.0500	0.0474		mg/Kg		95	51 - 127	1	30
Bromomethane	0.0500	0.0429		mg/Kg		86	69 - 120	4	30
2-Butanone (MEK)	0.0500	0.0563		mg/Kg		113	50 - 148	8	30
Carbon disulfide	0.0500	0.0535		mg/Kg		107	58 - 120	3	30
Carbon tetrachloride	0.0500	0.0428		mg/Kg		86	51 - 124	5	30
Chlorobenzene	0.0500	0.0522		mg/Kg		104	70 - 120	6	30
Chloroethane	0.0500	0.0642	*	mg/Kg		128	49 - 125	11	30
Chloroform	0.0500	0.0515		mg/Kg		103	70 - 120	4	30
Chloromethane	0.0500	0.0567		mg/Kg		113	63 - 126	6	30
cis-1,2-Dichloroethene	0.0500	0.0521		mg/Kg		104	70 - 120	5	30
Dibromochloromethane	0.0500	0.0487		mg/Kg		97	69 - 126	5	30
1,1-Dichloroethane	0.0500	0.0528		mg/Kg		106	70 - 120	4	30
1,2-Dichloroethane	0.0500	0.0440		mg/Kg		88	70 - 128	2	30
1,1-Dichloroethene	0.0500	0.0484		mg/Kg		97	67 - 120	4	30
1,2-Dichloropropane	0.0500	0.0545		mg/Kg		109	70 - 120	3	30
Ethylbenzene	0.0500	0.0552		mg/Kg		110	70 - 120	6	30
2-Hexanone	0.0500	0.0576		mg/Kg		115	50 - 150	2	30
Methylene Chloride	0.0500	0.0550		mg/Kg		110	70 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0593		mg/Kg		119	50 - 150	5	30
Methyl tert-butyl ether	0.0500	0.0522		mg/Kg		104	70 - 120	1	30
Styrene	0.0500	0.0555		mg/Kg		111	70 - 120	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0541		mg/Kg		108	70 - 133	0	30
Tetrachloroethene	0.0500	0.0479		mg/Kg		96	70 - 120	7	30
Toluene	0.0500	0.0550		mg/Kg		110	70 - 120	5	30
trans-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120	4	30
1,1,1-Trichloroethane	0.0500	0.0459		mg/Kg		92	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0512		mg/Kg		102	70 - 120	6	30
Trichloroethene	0.0500	0.0547		mg/Kg		109	70 - 120	2	30
Vinyl acetate	0.0500	0.0382		mg/Kg		76	60 - 150	8	30
Vinyl chloride	0.0500	0.0500		mg/Kg		100	69 - 120	9	30
Xylenes, Total	0.100	0.108		mg/Kg		108	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		70 - 122
Dibromofluoromethane	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	105		75 - 122

Lab Sample ID: MB 500-322748/5
Matrix: Solid
Analysis Batch: 322748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/14/16 12:16	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/14/16 12:16	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/14/16 12:16	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/14/16 12:16	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322748/5
Matrix: Solid
Analysis Batch: 322748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/14/16 12:16	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/14/16 12:16	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/14/16 12:16	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/14/16 12:16	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/14/16 12:16	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/14/16 12:16	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/14/16 12:16	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/14/16 12:16	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/14/16 12:16	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/14/16 12:16	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/14/16 12:16	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/14/16 12:16	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/14/16 12:16	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/14/16 12:16	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/14/16 12:16	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/14/16 12:16	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/14/16 12:16	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/14/16 12:16	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/14/16 12:16	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/14/16 12:16	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/14/16 12:16	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/14/16 12:16	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/14/16 12:16	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/14/16 12:16	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/14/16 12:16	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/14/16 12:16	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/14/16 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122		02/14/16 12:16	1
Dibromofluoromethane	95		75 - 120		02/14/16 12:16	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		02/14/16 12:16	1
Toluene-d8 (Surr)	103		75 - 122		02/14/16 12:16	1

Lab Sample ID: LCS 500-322748/4
Matrix: Solid
Analysis Batch: 322748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0653		mg/Kg		131	50 - 133
Benzene	0.0500	0.0582		mg/Kg		116	70 - 120
Bromodichloromethane	0.0500	0.0497		mg/Kg		99	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322748/4
Matrix: Solid
Analysis Batch: 322748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0485		mg/Kg		97	51 - 127
Bromomethane	0.0500	0.0438		mg/Kg		88	69 - 120
2-Butanone (MEK)	0.0500	0.0679		mg/Kg		136	50 - 148
Carbon disulfide	0.0500	0.0544		mg/Kg		109	58 - 120
Carbon tetrachloride	0.0500	0.0442		mg/Kg		88	51 - 124
Chlorobenzene	0.0500	0.0524		mg/Kg		105	70 - 120
Chloroethane	0.0500	0.0603		mg/Kg		121	49 - 125
Chloroform	0.0500	0.0506		mg/Kg		101	70 - 120
Chloromethane	0.0500	0.0576		mg/Kg		115	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 120
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 126
1,1-Dichloroethane	0.0500	0.0522		mg/Kg		104	70 - 120
1,2-Dichloroethane	0.0500	0.0445		mg/Kg		89	70 - 128
1,1-Dichloroethene	0.0500	0.0494		mg/Kg		99	67 - 120
1,2-Dichloropropane	0.0500	0.0540		mg/Kg		108	70 - 120
Ethylbenzene	0.0500	0.0555		mg/Kg		111	70 - 120
2-Hexanone	0.0500	0.0650		mg/Kg		130	50 - 150
Methylene Chloride	0.0500	0.0540		mg/Kg		108	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0656		mg/Kg		131	50 - 150
Methyl tert-butyl ether	0.0500	0.0517		mg/Kg		103	70 - 120
Styrene	0.0500	0.0561		mg/Kg		112	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0582		mg/Kg		116	70 - 133
Tetrachloroethene	0.0500	0.0494		mg/Kg		99	70 - 120
Toluene	0.0500	0.0564		mg/Kg		113	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 120
1,1,1-Trichloroethane	0.0500	0.0458		mg/Kg		92	70 - 120
1,1,2-Trichloroethane	0.0500	0.0533		mg/Kg		107	70 - 120
Trichloroethene	0.0500	0.0528		mg/Kg		106	70 - 120
Vinyl acetate	0.0500	0.0635		mg/Kg		127	60 - 150
Vinyl chloride	0.0500	0.0529		mg/Kg		106	69 - 120
Xylenes, Total	0.100	0.108		mg/Kg		108	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 122
Dibromofluoromethane	92		75 - 120
1,2-Dichloroethane-d4 (Surr)	84		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-321852/1-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321852

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	<0.17		0.17	0.074	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/04/16 07:10	02/12/16 12:42	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321852/1-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321852

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/04/16 07:10	02/12/16 12:42	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-321852/1-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/04/16 07:10	02/12/16 12:42	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/04/16 07:10	02/12/16 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	02/04/16 07:10	02/12/16 12:42	1
Phenol-d5	76		31 - 110	02/04/16 07:10	02/12/16 12:42	1
Nitrobenzene-d5	71		25 - 115	02/04/16 07:10	02/12/16 12:42	1
2-Fluorobiphenyl	74		25 - 119	02/04/16 07:10	02/12/16 12:42	1
2,4,6-Tribromophenol	61		35 - 137	02/04/16 07:10	02/12/16 12:42	1
Terphenyl-d14	91		36 - 134	02/04/16 07:10	02/12/16 12:42	1

Lab Sample ID: LCS 500-321852/2-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.13		mg/Kg		85	41 - 110
Bis(2-chloroethyl)ether	1.33	1.11		mg/Kg		84	32 - 110
1,3-Dichlorobenzene	1.33	1.13		mg/Kg		85	44 - 110
1,4-Dichlorobenzene	1.33	1.16		mg/Kg		87	45 - 110
1,2-Dichlorobenzene	1.33	1.15		mg/Kg		86	48 - 110
2-Methylphenol	1.33	1.14		mg/Kg		85	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.945		mg/Kg		71	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.12		mg/Kg		84	24 - 123
Hexachloroethane	1.33	1.14		mg/Kg		86	44 - 110
2-Chlorophenol	1.33	1.17		mg/Kg		88	47 - 114
Nitrobenzene	1.33	1.17		mg/Kg		88	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.25		mg/Kg		94	42 - 110
1,2,4-Trichlorobenzene	1.33	1.23		mg/Kg		92	49 - 110
Isophorone	1.33	1.23		mg/Kg		92	35 - 110
2,4-Dimethylphenol	1.33	1.23		mg/Kg		92	49 - 110
Hexachlorobutadiene	1.33	1.24		mg/Kg		93	47 - 114
Naphthalene	1.33	1.21		mg/Kg		90	48 - 110
2,4-Dichlorophenol	1.33	1.25		mg/Kg		94	53 - 113
4-Chloroaniline	1.33	0.601	J	mg/Kg		45	16 - 118
2,4,6-Trichlorophenol	1.33	1.29		mg/Kg		97	44 - 118
2,4,5-Trichlorophenol	1.33	0.922		mg/Kg		69	41 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321852/2-A

Matrix: Solid

Analysis Batch: 322596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 321852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Hexachlorocyclopentadiene	1.33	0.392	J	mg/Kg		29	10 - 110
2-Methylnaphthalene	1.33	1.19		mg/Kg		90	48 - 110
2-Nitroaniline	1.33	1.12		mg/Kg		84	42 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	52 - 114
4-Chloro-3-methylphenol	1.33	1.19		mg/Kg		89	52 - 111
2,6-Dinitrotoluene	1.33	1.04		mg/Kg		78	54 - 117
2-Nitrophenol	1.33	1.25		mg/Kg		93	48 - 113
3-Nitroaniline	1.33	0.949		mg/Kg		71	36 - 131
Dimethyl phthalate	1.33	1.10		mg/Kg		83	56 - 113
2,4-Dinitrophenol	2.67	0.642	J	mg/Kg		24	10 - 110
Acenaphthylene	1.33	1.09		mg/Kg		82	49 - 110
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		85	53 - 122
Acenaphthene	1.33	1.03		mg/Kg		77	46 - 110
Dibenzofuran	1.33	1.11		mg/Kg		84	51 - 119
4-Nitrophenol	2.67	2.09		mg/Kg		78	10 - 157
Fluorene	1.33	1.09		mg/Kg		82	47 - 121
4-Nitroaniline	1.33	1.41		mg/Kg		106	28 - 157
4-Bromophenyl phenyl ether	1.33	1.32		mg/Kg		99	55 - 113
Hexachlorobenzene	1.33	1.28		mg/Kg		96	54 - 114
Diethyl phthalate	1.33	1.12		mg/Kg		84	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		83	53 - 117
Pentachlorophenol	2.67	1.59		mg/Kg		60	10 - 124
N-Nitrosodiphenylamine	1.33	1.23		mg/Kg		92	52 - 111
4,6-Dinitro-2-methylphenol	2.67	1.41		mg/Kg		53	10 - 110
Phenanthrene	1.33	1.40		mg/Kg		105	48 - 121
Anthracene	1.33	1.09		mg/Kg		82	48 - 118
Carbazole	1.33	1.39		mg/Kg		104	26 - 188
Di-n-butyl phthalate	1.33	1.30		mg/Kg		98	50 - 128
Fluoranthene	1.33	1.30		mg/Kg		97	48 - 128
Pyrene	1.33	1.23		mg/Kg		92	46 - 114
Butyl benzyl phthalate	1.33	1.22		mg/Kg		92	49 - 121
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	49 - 121
Chrysene	1.33	1.27		mg/Kg		95	45 - 118
3,3'-Dichlorobenzidine	1.33	0.933		mg/Kg		70	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.26		mg/Kg		95	47 - 133
Di-n-octyl phthalate	1.33	1.30		mg/Kg		97	46 - 138
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		98	54 - 122
Benzo[k]fluoranthene	1.33	1.34		mg/Kg		100	44 - 137
Benzo[a]pyrene	1.33	1.35		mg/Kg		101	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.37		mg/Kg		103	49 - 132
Dibenz(a,h)anthracene	1.33	1.36		mg/Kg		102	48 - 134
Benzo[g,h,i]perylene	1.33	1.28		mg/Kg		96	52 - 125
3 & 4 Methylphenol	1.33	1.16		mg/Kg		87	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	80		25 - 110
Phenol-d5	83		31 - 110
Nitrobenzene-d5	85		25 - 115

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-321852/2-A
Matrix: Solid
Analysis Batch: 322596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321852

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	81		25 - 119
2,4,6-Tribromophenol	87		35 - 137
Terphenyl-d14	97		36 - 134

Lab Sample ID: 500-107169-1 MS
Matrix: Solid
Analysis Batch: 322601

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 321852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Phenol	<0.20		1.60	1.13		mg/Kg	☼	71	41 - 110
Bis(2-chloroethyl)ether	<0.20		1.60	0.976		mg/Kg	☼	61	32 - 110
1,3-Dichlorobenzene	<0.20		1.60	1.09		mg/Kg	☼	68	44 - 110
1,4-Dichlorobenzene	<0.20		1.60	1.12		mg/Kg	☼	70	45 - 110
1,2-Dichlorobenzene	<0.20		1.60	1.11		mg/Kg	☼	70	48 - 110
2-Methylphenol	<0.20		1.60	1.16		mg/Kg	☼	73	44 - 110
2,2'-oxybis[1-chloropropane]	<0.20		1.60	0.836		mg/Kg	☼	52	30 - 115
N-Nitrosodi-n-propylamine	<0.079		1.60	1.02		mg/Kg	☼	64	24 - 123
Hexachloroethane	<0.20		1.60	0.793		mg/Kg	☼	50	44 - 110
2-Chlorophenol	<0.20		1.60	1.10		mg/Kg	☼	69	47 - 114
Nitrobenzene	<0.039		1.60	1.13		mg/Kg	☼	71	35 - 113
Bis(2-chloroethoxy)methane	<0.20		1.60	1.13		mg/Kg	☼	71	42 - 110
1,2,4-Trichlorobenzene	<0.20		1.60	1.18		mg/Kg	☼	74	49 - 110
Isophorone	<0.20		1.60	1.07		mg/Kg	☼	67	35 - 110
2,4-Dimethylphenol	<0.39		1.60	1.14		mg/Kg	☼	71	49 - 110
Hexachlorobutadiene	<0.20		1.60	1.18		mg/Kg	☼	74	47 - 114
Naphthalene	<0.039		1.60	1.12		mg/Kg	☼	70	48 - 110
2,4-Dichlorophenol	<0.39		1.60	1.14		mg/Kg	☼	71	53 - 113
4-Chloroaniline	<0.79		1.60	0.911		mg/Kg	☼	57	16 - 118
2,4,6-Trichlorophenol	<0.39		1.60	1.15		mg/Kg	☼	72	44 - 118
2,4,5-Trichlorophenol	<0.39		1.60	1.18		mg/Kg	☼	74	41 - 120
Hexachlorocyclopentadiene	<0.79	F1	1.60	<0.80	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	0.0097	J	1.60	1.11		mg/Kg	☼	69	48 - 110
2-Nitroaniline	<0.20		1.60	1.07		mg/Kg	☼	67	42 - 122
2-Chloronaphthalene	<0.20		1.60	1.04		mg/Kg	☼	65	52 - 114
4-Chloro-3-methylphenol	<0.39		1.60	1.23		mg/Kg	☼	77	52 - 111
2,6-Dinitrotoluene	<0.20		1.60	1.12		mg/Kg	☼	70	54 - 117
2-Nitrophenol	<0.39		1.60	1.08		mg/Kg	☼	68	48 - 113
3-Nitroaniline	<0.39		1.60	0.986		mg/Kg	☼	62	36 - 131
Dimethyl phthalate	<0.20		1.60	1.09		mg/Kg	☼	69	56 - 113
2,4-Dinitrophenol	<0.79	F1	3.19	<0.80	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.039		1.60	1.05		mg/Kg	☼	66	49 - 110
2,4-Dinitrotoluene	<0.20		1.60	1.19		mg/Kg	☼	74	53 - 122
Acenaphthene	<0.039		1.60	1.04		mg/Kg	☼	65	46 - 110
Dibenzofuran	<0.20		1.60	1.17		mg/Kg	☼	73	51 - 119
4-Nitrophenol	<0.79		3.19	2.08		mg/Kg	☼	65	10 - 157
Fluorene	<0.039		1.60	1.11		mg/Kg	☼	69	47 - 121
4-Nitroaniline	<0.39		1.60	1.15		mg/Kg	☼	72	28 - 157
4-Bromophenyl phenyl ether	<0.20		1.60	1.29		mg/Kg	☼	81	55 - 113

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107169-1 MS

Matrix: Solid

Analysis Batch: 322601

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 321852

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexachlorobenzene	<0.079		1.60	1.30		mg/Kg	☼	81	54 - 114
Diethyl phthalate	<0.20		1.60	1.21		mg/Kg	☼	76	50 - 128
4-Chlorophenyl phenyl ether	<0.20		1.60	1.20		mg/Kg	☼	75	53 - 117
Pentachlorophenol	<0.79	F1	3.19	<0.80	F1	mg/Kg	☼	0	10 - 124
N-Nitrosodiphenylamine	<0.20		1.60	1.29		mg/Kg	☼	81	52 - 111
4,6-Dinitro-2-methylphenol	<0.79	F1	3.19	<0.80	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.025	J	1.60	1.27		mg/Kg	☼	78	48 - 121
Anthracene	<0.039		1.60	1.27		mg/Kg	☼	79	48 - 118
Carbazole	<0.20		1.60	1.38		mg/Kg	☼	86	26 - 188
Di-n-butyl phthalate	<0.20		1.60	1.34		mg/Kg	☼	84	50 - 128
Fluoranthene	0.021	J	1.60	1.26		mg/Kg	☼	78	48 - 128
Pyrene	0.021	J F1	1.60	1.96	F1	mg/Kg	☼	122	46 - 114
Butyl benzyl phthalate	<0.20	F1	1.60	1.99	F1	mg/Kg	☼	125	49 - 121
Benzo[a]anthracene	0.010	J	1.60	1.28		mg/Kg	☼	80	49 - 121
Chrysene	0.021	J	1.60	1.39		mg/Kg	☼	86	45 - 118
3,3'-Dichlorobenzidine	<0.20		1.60	0.695		mg/Kg	☼	44	26 - 128
Bis(2-ethylhexyl) phthalate	<0.20		1.60	2.04		mg/Kg	☼	128	47 - 133
Di-n-octyl phthalate	<0.20		1.60	0.842		mg/Kg	☼	53	46 - 138
Benzo[b]fluoranthene	0.016	J	1.60	1.59		mg/Kg	☼	99	54 - 122
Benzo[k]fluoranthene	<0.039		1.60	1.73		mg/Kg	☼	108	44 - 137
Benzo[a]pyrene	0.0092	J	1.60	1.36		mg/Kg	☼	85	53 - 122
Indeno[1,2,3-cd]pyrene	<0.039		1.60	1.21		mg/Kg	☼	76	49 - 132
Dibenz(a,h)anthracene	<0.039		1.60	1.02		mg/Kg	☼	64	48 - 134
Benzo[g,h,i]perylene	0.015	J	1.60	0.938		mg/Kg	☼	58	52 - 125
3 & 4 Methylphenol	<0.20		1.60	1.09		mg/Kg	☼	69	37 - 122

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	70		25 - 110
Phenol-d5	73		31 - 110
Nitrobenzene-d5	67		25 - 115
2-Fluorobiphenyl	62		25 - 119
2,4,6-Tribromophenol	80		35 - 137
Terphenyl-d14	130		36 - 134

Lab Sample ID: 500-107169-1 MSD

Matrix: Solid

Analysis Batch: 322601

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 321852

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.20		1.58	1.20		mg/Kg	☼	76	41 - 110	6	30
Bis(2-chloroethyl)ether	<0.20		1.58	1.06		mg/Kg	☼	67	32 - 110	8	30
1,3-Dichlorobenzene	<0.20		1.58	1.17		mg/Kg	☼	74	44 - 110	7	30
1,4-Dichlorobenzene	<0.20		1.58	1.20		mg/Kg	☼	76	45 - 110	7	30
1,2-Dichlorobenzene	<0.20		1.58	1.19		mg/Kg	☼	75	48 - 110	7	30
2-Methylphenol	<0.20		1.58	1.33		mg/Kg	☼	84	44 - 110	13	30
2,2'-oxybis[1-chloropropane]	<0.20		1.58	0.901		mg/Kg	☼	57	30 - 115	8	30
N-Nitrosodi-n-propylamine	<0.079		1.58	1.10		mg/Kg	☼	70	24 - 123	8	30
Hexachloroethane	<0.20		1.58	0.857		mg/Kg	☼	54	44 - 110	8	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107169-1 MSD

Matrix: Solid

Analysis Batch: 322601

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 321852

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Chlorophenol	<0.20		1.58	1.18		mg/Kg	☼	75	47 - 114	7	30
Nitrobenzene	<0.039		1.58	1.21		mg/Kg	☼	77	35 - 113	7	30
Bis(2-chloroethoxy)methane	<0.20		1.58	1.18		mg/Kg	☼	75	42 - 110	4	30
1,2,4-Trichlorobenzene	<0.20		1.58	1.27		mg/Kg	☼	80	49 - 110	7	30
Isophorone	<0.20		1.58	1.14		mg/Kg	☼	72	35 - 110	6	30
2,4-Dimethylphenol	<0.39		1.58	1.17		mg/Kg	☼	74	49 - 110	3	30
Hexachlorobutadiene	<0.20		1.58	1.24		mg/Kg	☼	78	47 - 114	5	30
Naphthalene	<0.039		1.58	1.20		mg/Kg	☼	76	48 - 110	7	30
2,4-Dichlorophenol	<0.39		1.58	1.18		mg/Kg	☼	74	53 - 113	3	30
4-Chloroaniline	<0.79		1.58	1.00		mg/Kg	☼	63	16 - 118	9	30
2,4,6-Trichlorophenol	<0.39		1.58	1.16		mg/Kg	☼	73	44 - 118	1	30
2,4,5-Trichlorophenol	<0.39		1.58	1.15		mg/Kg	☼	72	41 - 120	3	30
Hexachlorocyclopentadiene	<0.79	F1	1.58	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	0.0097	J	1.58	1.17		mg/Kg	☼	73	48 - 110	5	30
2-Nitroaniline	<0.20		1.58	1.04		mg/Kg	☼	66	42 - 122	3	30
2-Chloronaphthalene	<0.20		1.58	1.08		mg/Kg	☼	68	52 - 114	3	30
4-Chloro-3-methylphenol	<0.39		1.58	1.24		mg/Kg	☼	79	52 - 111	1	30
2,6-Dinitrotoluene	<0.20		1.58	1.12		mg/Kg	☼	71	54 - 117	0	30
2-Nitrophenol	<0.39		1.58	1.19		mg/Kg	☼	75	48 - 113	10	30
3-Nitroaniline	<0.39		1.58	0.986		mg/Kg	☼	62	36 - 131	0	30
Dimethyl phthalate	<0.20		1.58	1.09		mg/Kg	☼	69	56 - 113	0	30
2,4-Dinitrophenol	<0.79	F1	3.16	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.039		1.58	1.08		mg/Kg	☼	69	49 - 110	3	30
2,4-Dinitrotoluene	<0.20		1.58	1.15		mg/Kg	☼	73	53 - 122	3	30
Acenaphthene	<0.039		1.58	1.06		mg/Kg	☼	67	46 - 110	2	30
Dibenzofuran	<0.20		1.58	1.18		mg/Kg	☼	75	51 - 119	1	30
4-Nitrophenol	<0.79		3.16	2.20		mg/Kg	☼	70	10 - 157	6	30
Fluorene	<0.039		1.58	1.11		mg/Kg	☼	70	47 - 121	0	30
4-Nitroaniline	<0.39		1.58	1.16		mg/Kg	☼	74	28 - 157	1	30
4-Bromophenyl phenyl ether	<0.20		1.58	1.29		mg/Kg	☼	82	55 - 113	0	30
Hexachlorobenzene	<0.079		1.58	1.30		mg/Kg	☼	82	54 - 114	0	30
Diethyl phthalate	<0.20		1.58	1.19		mg/Kg	☼	75	50 - 128	2	30
4-Chlorophenyl phenyl ether	<0.20		1.58	1.20		mg/Kg	☼	76	53 - 117	0	30
Pentachlorophenol	<0.79	F1	3.16	0.675	J	mg/Kg	☼	21	10 - 124	NC	30
N-Nitrosodiphenylamine	<0.20		1.58	1.28		mg/Kg	☼	81	52 - 111	1	30
4,6-Dinitro-2-methylphenol	<0.79	F1	3.16	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.025	J	1.58	1.25		mg/Kg	☼	78	48 - 121	1	30
Anthracene	<0.039		1.58	1.24		mg/Kg	☼	79	48 - 118	2	30
Carbazole	<0.20		1.58	1.36		mg/Kg	☼	86	26 - 188	2	30
Di-n-butyl phthalate	<0.20		1.58	1.30		mg/Kg	☼	82	50 - 128	4	30
Fluoranthene	0.021	J	1.58	1.23		mg/Kg	☼	77	48 - 128	2	30
Pyrene	0.021	J F1	1.58	1.95	F1	mg/Kg	☼	122	46 - 114	1	30
Butyl benzyl phthalate	<0.20	F1	1.58	1.93	F1	mg/Kg	☼	122	49 - 121	3	30
Benzo[a]anthracene	0.010	J	1.58	1.23		mg/Kg	☼	77	49 - 121	4	30
Chrysene	0.021	J	1.58	1.33		mg/Kg	☼	83	45 - 118	4	30
3,3'-Dichlorobenzidine	<0.20		1.58	0.814		mg/Kg	☼	52	26 - 128	16	30
Bis(2-ethylhexyl) phthalate	<0.20		1.58	1.94		mg/Kg	☼	123	47 - 133	5	30
Di-n-octyl phthalate	<0.20		1.58	0.822		mg/Kg	☼	52	46 - 138	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107169-1 MSD

Matrix: Solid

Analysis Batch: 322601

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 321852

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Benzo[b]fluoranthene	0.016	J	1.58	1.50		mg/Kg	☼	94	54 - 122	6	30	
Benzo[k]fluoranthene	<0.039		1.58	1.37		mg/Kg	☼	87	44 - 137	23	30	
Benzo[a]pyrene	0.0092	J	1.58	1.30		mg/Kg	☼	82	53 - 122	5	30	
Indeno[1,2,3-cd]pyrene	<0.039		1.58	1.15		mg/Kg	☼	73	49 - 132	5	30	
Dibenz(a,h)anthracene	<0.039		1.58	0.974		mg/Kg	☼	62	48 - 134	5	30	
Benzo[g,h,i]perylene	0.015	J	1.58	0.886		mg/Kg	☼	55	52 - 125	6	30	
3 & 4 Methylphenol	<0.20		1.58	1.25		mg/Kg	☼	79	37 - 122	13	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	76		25 - 110
Phenol-d5	78		31 - 110
Nitrobenzene-d5	71		25 - 115
2-Fluorobiphenyl	63		25 - 119
2,4,6-Tribromophenol	74		35 - 137
Terphenyl-d14	124		36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-322038/1-A

Matrix: Solid

Analysis Batch: 322195

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 322038

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Barium	<1.0		1.0	0.18	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Boron	<5.0		5.0	0.70	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Calcium	7.76	J	20	6.4	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Chromium	0.864	J	1.0	0.17	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Copper	<1.0		1.0	0.22	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Iron	<20		20	7.7	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Lead	<0.50		0.50	0.25	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Magnesium	6.81	J	10	4.1	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Silver	<0.50		0.50	0.12	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Sodium	37.2	J	100	13	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/05/16 08:59	02/07/16 03:15	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/05/16 08:59	02/07/16 03:15	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-322038/1-A
Matrix: Solid
Analysis Batch: 322494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<50		50	8.2	mg/Kg		02/05/16 08:59	02/11/16 11:38	1

Lab Sample ID: LCS 500-322038/2-A
Matrix: Solid
Analysis Batch: 322195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.1		mg/Kg		92	80 - 120
Arsenic	10.0	9.30		mg/Kg		93	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Boron	100	87.4		mg/Kg		87	80 - 120
Cadmium	5.00	4.54		mg/Kg		91	80 - 120
Calcium	1000	943		mg/Kg		94	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Cobalt	50.0	48.0		mg/Kg		96	80 - 120
Copper	25.0	23.9		mg/Kg		95	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Lead	10.0	9.40		mg/Kg		94	80 - 120
Magnesium	1000	941		mg/Kg		94	80 - 120
Manganese	50.0	47.9		mg/Kg		96	80 - 120
Nickel	50.0	47.9		mg/Kg		96	80 - 120
Selenium	10.0	8.93		mg/Kg		89	80 - 120
Silver	5.00	4.46		mg/Kg		89	80 - 120
Sodium	1000	981		mg/Kg		98	80 - 120
Thallium	10.0	9.33		mg/Kg		93	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-322038/2-A
Matrix: Solid
Analysis Batch: 322494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Potassium	1000	892		mg/Kg		89	80 - 120

Lab Sample ID: 500-107169-1 MS
Matrix: Solid
Analysis Batch: 322195

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.96	F1 F2	30.0	4.79	F1	mg/Kg	☼	16	75 - 125
Arsenic	6.7	F1	6.00	11.2		mg/Kg	☼	75	75 - 125
Barium	68	F1	120	157	F1	mg/Kg	☼	74	75 - 125
Beryllium	0.68		3.00	3.18		mg/Kg	☼	84	75 - 125
Boron	9.3	F2	60.0	61.2		mg/Kg	☼	87	75 - 125
Cadmium	<0.096	F2	3.00	2.46		mg/Kg	☼	82	75 - 125
Chromium	18	B	12.0	29.3		mg/Kg	☼	98	75 - 125
Cobalt	13		30.0	42.9		mg/Kg	☼	100	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107169-1 MS

Matrix: Solid

Analysis Batch: 322195

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322038

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Copper	26	F1	15.0	35.0	F1	mg/Kg	☼	60	75 - 125
Iron	18000		60.0	17900	4	mg/Kg	☼	-547	75 - 125
Lead	15	F1 F2	6.00	33.8	F1	mg/Kg	☼	311	75 - 125
Magnesium	20000	B	600	24300	4	mg/Kg	☼	655	75 - 125
Manganese	300		30.0	394	4	mg/Kg	☼	314	75 - 125
Nickel	36		30.0	63.6		mg/Kg	☼	92	75 - 125
Selenium	0.32	J F1	6.00	4.44	F1	mg/Kg	☼	69	75 - 125
Silver	<0.24		3.00	2.43		mg/Kg	☼	81	75 - 125
Sodium	860	B F1	600	1690	F1	mg/Kg	☼	139	75 - 125
Thallium	0.68		6.00	5.57		mg/Kg	☼	81	75 - 125
Vanadium	22		30.0	48.2		mg/Kg	☼	86	75 - 125
Zinc	59		30.0	87.3		mg/Kg	☼	93	75 - 125

Lab Sample ID: 500-107169-1 MS

Matrix: Solid

Analysis Batch: 322494

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322038

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Potassium	2900		600	5520	4	mg/Kg	☼	437	75 - 125

Lab Sample ID: 500-107169-1 MS

Matrix: Solid

Analysis Batch: 322494

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322038

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Calcium	43000	^	600	55100	4 ^	mg/Kg	☼	1982	75 - 125

Lab Sample ID: 500-107169-1 MSD

Matrix: Solid

Analysis Batch: 322195

Client Sample ID: 2746-01A-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322038

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Antimony	<0.96	F1 F2	24.7	3.43	F1 F2	mg/Kg	☼	14	75 - 125	33	20
Arsenic	6.7	F1	4.94	9.87	F1	mg/Kg	☼	64	75 - 125	13	20
Barium	68	F1	98.7	134	F1	mg/Kg	☼	66	75 - 125	16	20
Beryllium	0.68		2.47	2.70		mg/Kg	☼	82	75 - 125	16	20
Boron	9.3	F2	49.4	49.3	F2	mg/Kg	☼	81	75 - 125	22	20
Cadmium	<0.096	F2	2.47	1.96	F2	mg/Kg	☼	80	75 - 125	22	20
Chromium	18	B	9.87	26.0		mg/Kg	☼	85	75 - 125	12	20
Cobalt	13		24.7	37.4		mg/Kg	☼	100	75 - 125	14	20
Copper	26	F1	12.3	34.8	F1	mg/Kg	☼	72	75 - 125	0	20
Iron	18000		49.4	17200	4	mg/Kg	☼	-1968	75 - 125	4	20
Lead	15	F1 F2	4.94	24.3	F1 F2	mg/Kg	☼	186	75 - 125	33	20
Magnesium	20000	B	494	24600	4	mg/Kg	☼	847	75 - 125	1	20
Manganese	300		24.7	351	4	mg/Kg	☼	207	75 - 125	12	20
Nickel	36		24.7	58.7		mg/Kg	☼	92	75 - 125	8	20
Selenium	0.32	J F1	4.94	3.84	F1	mg/Kg	☼	72	75 - 125	14	20
Silver	<0.24		2.47	2.02		mg/Kg	☼	82	75 - 125	18	20
Sodium	860	B F1	494	1490	F1	mg/Kg	☼	127	75 - 125	13	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107169-1 MSD
Matrix: Solid
Analysis Batch: 322195

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Thallium	0.68		4.94	4.79		mg/Kg	☼	83	75 - 125	15	20	
Vanadium	22		24.7	41.1		mg/Kg	☼	76	75 - 125	16	20	
Zinc	59		24.7	81.4		mg/Kg	☼	89	75 - 125	7	20	

Lab Sample ID: 500-107169-1 MSD
Matrix: Solid
Analysis Batch: 322494

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Potassium	2900		494	4970	4	mg/Kg	☼	420	75 - 125	10	20	

Lab Sample ID: 500-107169-1 MSD
Matrix: Solid
Analysis Batch: 322494

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Calcium	43000	^	494	54900	4 ^	mg/Kg	☼	2355	75 - 125	0	20	

Lab Sample ID: 500-107169-1 DU
Matrix: Solid
Analysis Batch: 322195

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<0.96	F1 F2	<0.94		mg/Kg	☼	NC	20
Arsenic	6.7	F1	5.94		mg/Kg	☼	12	20
Barium	68	F1	48.5	F3	mg/Kg	☼	33	20
Beryllium	0.68		0.638		mg/Kg	☼	6	20
Boron	9.3	F2	12.0	F3	mg/Kg	☼	25	20
Cadmium	<0.096	F2	0.0392	J	mg/Kg	☼	NC	20
Chromium	18	B	16.3		mg/Kg	☼	8	20
Cobalt	13		13.1		mg/Kg	☼	1	20
Copper	26	F1	24.2		mg/Kg	☼	7	20
Iron	18000		17000		mg/Kg	☼	7	20
Lead	15	F1 F2	26.4	F3	mg/Kg	☼	54	20
Magnesium	20000	B	24900		mg/Kg	☼	20	20
Manganese	300		348		mg/Kg	☼	15	20
Nickel	36		35.1		mg/Kg	☼	3	20
Selenium	0.32	J F1	0.585	F5	mg/Kg	☼	60	20
Silver	<0.24		<0.24		mg/Kg	☼	NC	20
Sodium	860	B F1	996		mg/Kg	☼	15	20
Thallium	0.68		<0.47		mg/Kg	☼	NC	20
Vanadium	22		18.5		mg/Kg	☼	18	20
Zinc	59		59.6		mg/Kg	☼	0.6	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107169-1 DU
Matrix: Solid
Analysis Batch: 322494

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Potassium	2900		3260		mg/Kg	☼	12	20

Lab Sample ID: 500-107169-1 DU
Matrix: Solid
Analysis Batch: 322494

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322038

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	43000	^	60000	F3 ^	mg/Kg	☼	32	20

Lab Sample ID: LCS 500-322097/3-A
Matrix: Solid
Analysis Batch: 322292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.511		mg/L		102	80 - 120
Beryllium	0.0500	0.0502		mg/L		100	80 - 120
Boron	1.00	0.929		mg/L		93	80 - 120
Cadmium	0.0500	0.0476		mg/L		95	80 - 120
Chromium	0.200	0.193		mg/L		97	80 - 120
Cobalt	0.500	0.506		mg/L		101	80 - 120
Iron	1.00	1.07	^	mg/L		107	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.507		mg/L		101	80 - 120
Nickel	0.500	0.497		mg/L		99	80 - 120
Selenium	0.100	0.0898		mg/L		90	80 - 120
Silver	0.0500	0.0461		mg/L		92	80 - 120
Zinc	0.500	0.493	J	mg/L		99	80 - 120

Lab Sample ID: LCS 500-322100/2-A
Matrix: Solid
Analysis Batch: 322371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	0.0500	0.0506		mg/L		101	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.524		mg/L		105	80 - 120

Lab Sample ID: LB 500-322062/1-B
Matrix: Solid
Analysis Batch: 322292

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322097

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 14:10	1
Boron	<0.50		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 14:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:10	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:10	1
Iron	<0.40	^	0.40	0.20	mg/L		02/08/16 08:30	02/09/16 14:10	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322062/1-B
Matrix: Solid
Analysis Batch: 322292

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322097

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 14:10	1
Manganese	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:10	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 14:10	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:10	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 14:10	1

Lab Sample ID: LB2 500-322064/1-B
Matrix: Solid
Analysis Batch: 322292

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322097

Analyte	LB2	LB2	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/08/16 08:30	02/09/16 14:16	1
Boron	<0.50		0.50	0.050	mg/L		02/08/16 08:30	02/09/16 14:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/09/16 14:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:16	1
Cobalt	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:16	1
Iron	<0.40	^	0.40	0.20	mg/L		02/08/16 08:30	02/09/16 14:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/09/16 14:16	1
Manganese	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:16	1
Nickel	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/08/16 08:30	02/09/16 14:16	1
Silver	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/09/16 14:16	1
Zinc	<0.50		0.50	0.020	mg/L		02/08/16 08:30	02/09/16 14:16	1

Lab Sample ID: 500-107169-1 MS
Matrix: Solid
Analysis Batch: 322292

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: TCLP
Prep Batch: 322097

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Barium	0.16	J	0.500	0.709		mg/L		110		50 - 150
Beryllium	<0.0040		0.0500	0.0507		mg/L		101		50 - 150
Boron	0.074	J	1.00	0.987		mg/L		91		50 - 150
Cadmium	<0.0050		0.0500	0.0551		mg/L		110		50 - 150
Chromium	<0.025		0.200	0.185		mg/L		93		50 - 150
Cobalt	0.014	J	0.500	0.553		mg/L		108		50 - 150
Iron	<0.40	^	1.00	1.04	^	mg/L		104		50 - 150
Lead	<0.0075		0.100	0.109		mg/L		109		50 - 150
Manganese	2.2		0.500	3.34	4	mg/L		228		50 - 150
Nickel	0.026		0.500	0.560		mg/L		107		50 - 150
Selenium	<0.050		0.100	0.117		mg/L		117		50 - 150
Silver	<0.025		0.0500	0.0550		mg/L		110		50 - 150
Zinc	<0.50		0.500	0.559		mg/L		112		50 - 150

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107169-1 DU
Matrix: Solid
Analysis Batch: 322292

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: TCLP
Prep Batch: 322097

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.16	J	0.174	J	mg/L		10	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.074	J	0.0848	J	mg/L		13	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.014	J	0.0140	J	mg/L		1	20
Iron	<0.40	^	0.215	J ^	mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.2		2.40		mg/L		9	20
Nickel	0.026		0.0285		mg/L		11	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-322068/1-B
Matrix: Solid
Analysis Batch: 322371

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322100

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/08/16 08:30	02/10/16 11:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/08/16 08:30	02/10/16 11:16	1
Manganese	<0.025		0.025	0.010	mg/L		02/08/16 08:30	02/10/16 11:16	1

Lab Sample ID: 500-107169-1 MS
Matrix: Solid
Analysis Batch: 322371

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: SPLP East
Prep Batch: 322100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Manganese	0.017	J	0.500	0.560		mg/L		109	50 - 150

Lab Sample ID: 500-107169-1 DU
Matrix: Solid
Analysis Batch: 322371

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: SPLP East
Prep Batch: 322100

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Manganese	0.017	J	0.0181	J	mg/L		8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-322097/3-A
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322097

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.406		mg/L		81	80 - 120
Thallium	0.100	0.0950		mg/L		95	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 500-322062/1-B
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322097

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 19:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 19:56	1

Lab Sample ID: LB2 500-322064/1-B
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322097

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/08/16 08:30	02/11/16 20:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/08/16 08:30	02/11/16 20:00	1

Lab Sample ID: 500-107169-1 MS
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: TCLP
Prep Batch: 322097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0060		0.500	0.395		mg/L		79	50 - 150
Thallium	<0.0020		0.100	0.104		mg/L		104	50 - 150

Lab Sample ID: 500-107169-1 DU
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: TCLP
Prep Batch: 322097

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-322116/12-A
Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 12:05	1

Lab Sample ID: LCS 500-322116/13-A
Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: LB 500-322062/1-C
Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322116

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:22	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB2 500-322064/1-C
Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322116

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/08/16 13:30	02/11/16 13:24	1

Lab Sample ID: 500-107169-2 MS
Matrix: Solid
Analysis Batch: 322627

Client Sample ID: 2746-01A-B04 (0-8)
Prep Type: TCLP
Prep Batch: 322116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00111		mg/L		111	50 - 150

Lab Sample ID: 500-107169-2 DU
Matrix: Solid
Analysis Batch: 322627

Client Sample ID: 2746-01A-B04 (0-8)
Prep Type: TCLP
Prep Batch: 322116

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-321942/12-A
Matrix: Solid
Analysis Batch: 322469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/04/16 16:30	02/05/16 10:44	1

Lab Sample ID: LCS 500-321942/13-A
Matrix: Solid
Analysis Batch: 322469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.163		mg/Kg		97	80 - 120

Lab Sample ID: 500-107169-1 MS
Matrix: Solid
Analysis Batch: 322469

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 321942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.022		0.0871	0.107		mg/Kg	☼	98	75 - 125

Lab Sample ID: 500-107169-1 MSD
Matrix: Solid
Analysis Batch: 322469

Client Sample ID: 2746-01A-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 321942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.022		0.0890	0.112		mg/Kg	☼	101	75 - 125	5	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-107169-1 DU
 Matrix: Solid
 Analysis Batch: 322469

Client Sample ID: 2746-01A-B05 (0-8)
 Prep Type: Total/NA
 Prep Batch: 321942

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.022		0.0212		mg/Kg	☼	4	20

Method: 9045D - pH

Lab Sample ID: 500-107169-1 DU
 Matrix: Solid
 Analysis Batch: 322417

Client Sample ID: 2746-01A-B05 (0-8)
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.52		7.570		SU		0.7	



Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Date Collected: 02/03/16 09:40

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 11:29	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 14:24	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 20:17	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:26	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 14:50		
					(End)	02/10/16 14:52		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01A-B05 (0-8)

Lab Sample ID: 500-107169-1

Date Collected: 02/03/16 09:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 20:55	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 12:32	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322494	02/11/16 11:52	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322494	02/11/16 12:42	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 03:24	KML	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 10:49	PFK	TAL CHI

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 12:39	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 14:45	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 20:33	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:29	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 14:55		
					(End)	02/10/16 14:58		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01A-B04 (0-8)

Lab Sample ID: 500-107169-2

Date Collected: 02/03/16 10:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 21:46	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 12:56	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322494	02/11/16 13:15	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 03:56	KML	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 10:57	PFK	TAL CHI

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 12:45	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 14:50	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 20:37	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:34	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417	(Start) 02/10/16 14:58 (End) 02/10/16 15:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01A-B03 (0-8)

Lab Sample ID: 500-107169-3

Date Collected: 02/03/16 10:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 22:12	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 13:21	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:01	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:06	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:03	PFK	TAL CHI

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Date Collected: 02/03/16 11:15

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 12:52	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 16:07	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 20:41	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417	(Start) 02/10/16 15:01 (End) 02/10/16 15:04	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B76 (0-8)

Lab Sample ID: 500-107169-4

Date Collected: 02/03/16 11:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 22:38	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 13:45	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:06	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:11	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 02:16	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:05	PFK	TAL CHI

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 12:59	PJ1	TAL CHI
TCLP	Leach	1311			322064	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:07	PJ1	TAL CHI
TCLP	Leach	1311			322064	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 20:45	PFK	TAL CHI
TCLP	Leach	1311			322064	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 14:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:04		
					(End)	02/10/16 15:07		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 23:04	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 14:10	AJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B77 (0-8)

Lab Sample ID: 500-107169-5

Date Collected: 02/03/16 11:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:11	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:21	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 02:26	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:07	PFK	TAL CHI

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 13:06	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:12	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 20:50	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417	(Start) 02/10/16 15:07 (End) 02/10/16 15:09	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 23:30	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 14:34	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:16	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:30	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B78 (0-8)

Lab Sample ID: 500-107169-6

Date Collected: 02/03/16 11:45

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:09	PFK	TAL CHI

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Date Collected: 02/03/16 12:00

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 13:13	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:17	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:08	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:09		
					(End)	02/10/16 15:12		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B79 (0-8)

Lab Sample ID: 500-107169-7

Date Collected: 02/03/16 12:00

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/13/16 23:57	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 14:59	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:21	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:35	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:11	PFK	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Date Collected: 02/03/16 12:15

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 13:35	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:23	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:12	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:12		
					(End)	02/10/16 15:15		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B80 (0-8)

Lab Sample ID: 500-107169-8

Date Collected: 02/03/16 12:15

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 00:22	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 15:23	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:26	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:40	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 02:53	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:13	PFK	TAL CHI

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 13:42	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:28	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:16	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:15		
					(End)	02/10/16 15:18		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B81 (0-8)

Lab Sample ID: 500-107169-9

Date Collected: 02/03/16 12:35

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 01:14	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 15:48	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:31	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 02:57	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:15	PFK	TAL CHI

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 13:49	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:33	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:20	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417	(Start) 02/10/16 15:18 (End) 02/10/16 15:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B82 (0-8)

Lab Sample ID: 500-107169-10

Date Collected: 02/03/16 12:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 01:40	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 16:12	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:44	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 03:02	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 03:07	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:17	PFK	TAL CHI

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 13:56	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:38	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:24	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:52	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:21		
					(End)	02/10/16 15:24		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B83 (0-8)

Lab Sample ID: 500-107169-11

Date Collected: 02/03/16 13:10

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 02:06	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 16:37	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:49	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 03:12	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 03:17	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:19	PFK	TAL CHI

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Date Collected: 02/03/16 13:50

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:03	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:43	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:28	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:24		
					(End)	02/10/16 15:26		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (0-6)

Lab Sample ID: 500-107169-12

Date Collected: 02/03/16 13:50

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 02:32	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 17:01	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:54	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 03:21	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322469	02/05/16 11:21	PFK	TAL CHI

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:09	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:49	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:33	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:55	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:26		
					(End)	02/10/16 15:29		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 02:58	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 17:26	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 04:59	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (6-12)

Lab Sample ID: 500-107169-13

Date Collected: 02/03/16 13:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 03:26	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 03:31	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:06	MJD	TAL CHI

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:16	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 15:54	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:37	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:29		
					(End)	02/10/16 15:32		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 03:24	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 17:50	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 05:04	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 03:35	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 03:48	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B84 (12-18)

Lab Sample ID: 500-107169-14

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:04	MJD	TAL CHI

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:23	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 16:12	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:41	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 13:59	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:32		
					(End)	02/10/16 15:35		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B84 (12-18)D

Lab Sample ID: 500-107169-15

Date Collected: 02/03/16 14:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 03:50	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 18:15	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 05:09	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 03:53	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 03:58	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:08	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Date Collected: 02/03/16 14:30

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:30	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 16:18	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 16:45	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 14:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:35		
					(End)	02/10/16 15:38		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B85 (0-8)

Lab Sample ID: 500-107169-16

Date Collected: 02/03/16 14:30

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 04:16	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 18:39	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 05:14	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 04:02	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 04:07	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:10	MJD	TAL CHI

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:37	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 16:23	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:01	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 14:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417		SMO	TAL CHI
					(Start)	02/10/16 15:38		
					(End)	02/10/16 15:41		
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B85 (8-16)

Lab Sample ID: 500-107169-17

Date Collected: 02/03/16 14:40

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 04:42	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 19:03	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 05:19	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 04:11	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 04:16	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:12	MJD	TAL CHI

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322068	02/05/16 14:00	PFK	TAL CHI
SPLP East	Prep	3010A			322100	02/08/16 08:30	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322371	02/10/16 14:59	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 16:28	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	322594	02/11/16 17:05	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 14:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417	(Start) 02/10/16 15:41 (End) 02/10/16 15:43	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B86 (0-6)

Lab Sample ID: 500-107169-18

Date Collected: 02/03/16 14:55

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322736	02/14/16 05:08	JMP	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 19:28	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 05:24	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 04:20	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 04:25	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:15	MJD	TAL CHI

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6010B		1	322292	02/09/16 16:33	PJ1	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322097	02/08/16 08:30	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:09	PFK	TAL CHI
TCLP	Leach	1311			322062	02/05/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322116	02/08/16 13:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 14:11	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322417	(Start) 02/10/16 15:43 (End) 02/10/16 15:46	SMO	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	321877	02/04/16 09:11	LWN	TAL CHI

Client Sample ID: 2746-01-B86 (6-12)

Lab Sample ID: 500-107169-19

Date Collected: 02/03/16 15:05

Matrix: Solid

Date Received: 02/03/16 16:45

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			321839	02/03/16 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	322748	02/14/16 17:36	PMF	TAL CHI
Total/NA	Prep	3541			321852	02/04/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322601	02/12/16 19:52	AJD	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322195	02/07/16 05:29	KML	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322589	02/12/16 04:30	PJ1	TAL CHI
Total/NA	Prep	3050B			322038	02/05/16 08:59	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322589	02/12/16 04:42	PJ1	TAL CHI
Total/NA	Prep	7471B			321942	02/04/16 16:30	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:17	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107169-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107169-1

Login Number: 107169

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4, 4.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107244-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



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2/17/2016 1:46:29 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Job ID: 500-107244-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107244-1

Comments

No additional comments.

Receipt

The samples were received on 2/4/2016 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.9° C.

GC/MS VOA

Method(s) 8260B: One surrogate recovery for the following sample was outside the upper control limit: 2746-01-B46 (0-5) (500-107244-8). This sample did not contain any target analytes; therefore, re-analysis was not performed.

Method(s) 8260B: The laboratory control sample (LCS) for batch 322897 recovered outside control limits for the following analytes: Methyl-tert-butyl ether. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: 3 surrogate recoveries for the following sample were outside the upper control limit: 2746-61-B01 (0-5) (500-107244-19). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01-B87 (0-7) (500-107244-1), 2746-01-B87 (7-14) (500-107244-2), 2746-01-B48 (7-13) (500-107244-5), 2746-01-B47 (0-7) (500-107244-6), 2746-01-B46 (5-10) (500-107244-9), 2746-01-B45 (0-7) (500-107244-10), 2746-01-B43 (7-14) (500-107244-15), 2746-01-B23 (0-2) (500-107244-16), 2746-01-B19 (0-2) (500-107244-17), 2746-01-B22 (0-2) (500-107244-18), (500-107244-E-1-B MS) and (500-107244-E-1-C MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: 2746-01-B23 (0-2) (500-107244-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-322299 and analytical batch 500-322411 contained Chromium above the reporting limit (RL). Associated samples 2746-01-B87 (0-7) (500-107244-1), 2746-01-B87 (7-14) (500-107244-2), 2746-01-B87 (14-20) (500-107244-3), 2746-01-B48 (0-7) (500-107244-4), 2746-01-B48 (7-13) (500-107244-5), 2746-01-B47 (0-7) (500-107244-6), 2746-01-B47 (7-13) (500-107244-7), 2746-01-B46 (0-5) (500-107244-8), 2746-01-B46 (5-10) (500-107244-9), 2746-01-B45 (0-7) (500-107244-10), 2746-01-B45 (7-14) (500-107244-11), 2746-01-B44 (0-7) (500-107244-12), 2746-01-B44 (7-14) (500-107244-13), 2746-01-B43 (0-7) (500-107244-14), 2746-01-B43 (7-14) (500-107244-15), 2746-01-B23 (0-2) (500-107244-16), 2746-01-B19 (0-2) (500-107244-17), 2746-01-B22 (0-2) (500-107244-18) and 2746-61-B01 (0-5) (500-107244-19) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.038	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.083		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J F1	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0094	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.50	0.092	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	14	F1	2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	72000		100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.50	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.50	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	290	B	50	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	51	F1	1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.84		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.70	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.53	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.038		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.73		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.048		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.070		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0082	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	90000		120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (7-14) (Continued)

Lab Sample ID: 500-107244-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.74		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.028		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.044	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.47	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.073		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.050		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0074	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000		110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	190	B	57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.79		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.89	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (14-20) (Continued)

Lab Sample ID: 500-107244-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.052	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.35	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.048		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.094		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.097		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.024	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.011	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.2		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	15		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000		120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	590	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.67	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.056	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.26	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.061		0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.17		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (7-13) (Continued)

Lab Sample ID: 500-107244-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.11		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000		110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	330	B	56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.88	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.049	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.42	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.065		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.011	J	0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.10		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.023	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0056	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000		110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (0-7) (Continued)

Lab Sample ID: 500-107244-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	36		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	350	B	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.40	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.043		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.068		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.089		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.5		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.50	0.092	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		100	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.50	0.086	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.50	0.099	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	200	B	50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.15	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.89	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.34	J B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (7-13) (Continued)

Lab Sample ID: 500-107244-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.87		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.049		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.012	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0055	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.014	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.5		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	530	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.74	B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.20	J B	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.40	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.013	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	7.91		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.055		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0082	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (5-10) (Continued)

Lab Sample ID: 500-107244-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	14		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	96000		100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	230	B	51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.84	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.055	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.58	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.087		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.10		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0095	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.11		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.042		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.071		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.089		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.023	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	100000		110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (0-7) (Continued)

Lab Sample ID: 500-107244-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	390		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	1500	B	54	7.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.31	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.97	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.45	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.92		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.03		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.070		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.15		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.090		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.010	J	0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.46	0.085	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.19	0.040	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000		93	30	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.46	0.080	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.46	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	9.3	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.23	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		4.6	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.46	0.092	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.46	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		23	3.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	530	B	46	6.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		0.93	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.89	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0083		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (7-14) (Continued)

Lab Sample ID: 500-107244-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.069	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.033		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.020	0.011	mg/Kg	1	*	7471B	Total/NA
pH	7.98		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.042		0.041	0.0063	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.12		0.041	0.0075	mg/Kg	1	*	8270D	Total/NA
Acenaphthylene	0.022	J	0.041	0.0054	mg/Kg	1	*	8270D	Total/NA
Acenaphthene	0.028	J	0.041	0.0073	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.028	J	0.041	0.0057	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.48		0.041	0.0057	mg/Kg	1	*	8270D	Total/NA
Anthracene	0.090		0.041	0.0068	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.89		0.041	0.0076	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.98		0.041	0.0081	mg/Kg	1	*	8270D	Total/NA
Butyl benzyl phthalate	0.18	J	0.21	0.078	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.40		0.041	0.0055	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.46		0.041	0.011	mg/Kg	1	*	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.12	J	0.21	0.075	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.81		0.041	0.0088	mg/Kg	1	*	8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.041	0.012	mg/Kg	1	*	8270D	Total/NA
Benzo[a]pyrene	0.43		0.041	0.0079	mg/Kg	1	*	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.25		0.041	0.011	mg/Kg	1	*	8270D	Total/NA
Dibenz(a,h)anthracene	0.049		0.041	0.0079	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.27		0.041	0.013	mg/Kg	1	*	8270D	Total/NA
Arsenic	6.9		0.54	0.25	mg/Kg	1	*	6010B	Total/NA
Barium	91		0.54	0.099	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.63		0.22	0.047	mg/Kg	1	*	6010B	Total/NA
Boron	14		2.7	0.38	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.44	B	0.11	0.031	mg/Kg	1	*	6010B	Total/NA
Calcium	81000		110	35	mg/Kg	10	*	6010B	Total/NA
Chromium	21	B	0.54	0.093	mg/Kg	1	*	6010B	Total/NA
Cobalt	12		0.27	0.061	mg/Kg	1	*	6010B	Total/NA
Copper	55		0.54	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	21000	B	11	4.2	mg/Kg	1	*	6010B	Total/NA
Lead	820		0.27	0.13	mg/Kg	1	*	6010B	Total/NA
Magnesium	28000		5.4	2.2	mg/Kg	1	*	6010B	Total/NA
Manganese	370		0.54	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	35		0.54	0.15	mg/Kg	1	*	6010B	Total/NA
Potassium	2500		27	4.4	mg/Kg	1	*	6010B	Total/NA
Selenium	0.37	J	0.54	0.27	mg/Kg	1	*	6010B	Total/NA
Silver	0.11	J	0.27	0.063	mg/Kg	1	*	6010B	Total/NA
Sodium	1300	B	54	7.1	mg/Kg	1	*	6010B	Total/NA
Vanadium	20		0.27	0.079	mg/Kg	1	*	6010B	Total/NA
Zinc	200		1.1	0.34	mg/Kg	1	*	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.68	B	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (0-7) (Continued)

Lab Sample ID: 500-107244-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0024	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.14		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.054	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.21		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.60		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.91		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.050		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.15		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.14		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.018	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.16		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.065		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.069		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.047		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000		120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	220	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.28	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.74	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (7-14) (Continued)

Lab Sample ID: 500-107244-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.040	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.94	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.30		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.20		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.019	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.059		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.075		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.052		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.036	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.6		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.49	0.090	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.20	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000		98	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.9		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	9.8	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.49	0.097	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200	B	49	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.24	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		0.98	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.80		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.76	B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0020	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.21	J B	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.36	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (7-14) (Continued)

Lab Sample ID: 500-107244-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.064		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.14		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.093		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.025	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.027	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.1		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.21	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.49	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	280	B	51	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.83		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.75	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.064	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.035		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.03		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.0074		0.0043	0.00089	mg/Kg	1	☼	8260B	Total/NA
Trichloroethene	0.0056		0.0043	0.0012	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.046		0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.043		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.052		0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.77		0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.51		0.19	0.043	mg/Kg	1	☼	8270D	Total/NA
Fluorene	1.2		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.79		0.19	0.092	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2.4		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.84		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2.0		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	16		0.37	0.052	mg/Kg	10	☼	8270D	Total/NA
Anthracene - DL	6.5		0.37	0.062	mg/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B23 (0-2) (Continued)

Lab Sample ID: 500-107244-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene - DL	24		0.37	0.069	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]anthracene - DL	12		0.37	0.050	mg/Kg	10	☼	8270D	Total/NA
Chrysene - DL	11		0.37	0.10	mg/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	14		0.37	0.080	mg/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	4.0		0.37	0.11	mg/Kg	10	☼	8270D	Total/NA
Benzo[a]pyrene - DL	8.5		0.37	0.072	mg/Kg	10	☼	8270D	Total/NA
Pyrene - DL2	29		0.73	0.15	mg/Kg	20	☼	8270D	Total/NA
Arsenic	6.7		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	78		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37	B	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	53000		110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	59		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	2100	B	53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.72	B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0025	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.65		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.062		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.022	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.029	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.48	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.037	J B	0.097	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		97	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B19 (0-2) (Continued)

Lab Sample ID: 500-107244-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	13		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.48	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	9.7	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		4.8	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.48	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	900	B	48	6.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.54		0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.93	B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.74		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.61		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.82		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0085	J	0.039	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0087	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.17		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.036	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.46		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.51		0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.22		0.039	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.24		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.36		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.20		0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.096		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.039	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.092		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.0		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	59		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.082	J B	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	58		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B22 (0-2) (Continued)

Lab Sample ID: 500-107244-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	15000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	2400	B	59	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.51	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.81	B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.97		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.20		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	8.3		0.45	0.082	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.096	J	0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0		2.2	0.31	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.032	J B	0.090	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	120000		90	29	mg/Kg	10	☼	6010B	Total/NA
Chromium	5.2	B	0.45	0.077	mg/Kg	1	☼	6010B	Total/NA
Cobalt	2.3		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	7.3		0.45	0.097	mg/Kg	1	☼	6010B	Total/NA
Iron	5500	B	9.0	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	3.1		0.22	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	45000		4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	190		0.45	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.6		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	470		22	3.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	330	B	45	5.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	7.8		0.22	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	20		0.90	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.082	J B F1	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.072	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.027		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.71		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107244-1	2746-01-B87 (0-7)	Solid	02/04/16 08:45	02/04/16 16:50
500-107244-2	2746-01-B87 (7-14)	Solid	02/04/16 08:50	02/04/16 16:50
500-107244-3	2746-01-B87 (14-20)	Solid	02/04/16 09:00	02/04/16 16:50
500-107244-4	2746-01-B48 (0-7)	Solid	02/04/16 10:05	02/04/16 16:50
500-107244-5	2746-01-B48 (7-13)	Solid	02/04/16 10:10	02/04/16 16:50
500-107244-6	2746-01-B47 (0-7)	Solid	02/04/16 10:30	02/04/16 16:50
500-107244-7	2746-01-B47 (7-13)	Solid	02/04/16 10:35	02/04/16 16:50
500-107244-8	2746-01-B46 (0-5)	Solid	02/04/16 11:00	02/04/16 16:50
500-107244-9	2746-01-B46 (5-10)	Solid	02/04/16 11:05	02/04/16 16:50
500-107244-10	2746-01-B45 (0-7)	Solid	02/04/16 12:10	02/04/16 16:50
500-107244-11	2746-01-B45 (7-14)	Solid	02/04/16 12:15	02/04/16 16:50
500-107244-12	2746-01-B44 (0-7)	Solid	02/04/16 12:40	02/04/16 16:50
500-107244-13	2746-01-B44 (7-14)	Solid	02/04/16 12:45	02/04/16 16:50
500-107244-14	2746-01-B43 (0-7)	Solid	02/04/16 13:15	02/04/16 16:50
500-107244-15	2746-01-B43 (7-14)	Solid	02/04/16 13:20	02/04/16 16:50
500-107244-16	2746-01-B23 (0-2)	Solid	02/04/16 13:55	02/04/16 16:50
500-107244-17	2746-01-B19 (0-2)	Solid	02/04/16 14:05	02/04/16 16:50
500-107244-18	2746-01-B22 (0-2)	Solid	02/04/16 14:20	02/04/16 16:50
500-107244-19	2746-61-B01 (0-5)	Solid	02/04/16 14:50	02/04/16 16:50

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Date Collected: 02/04/16 08:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
trans-1,3-Dichloropropene	<0.0040	*	0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	02/05/16 07:30	02/15/16 12:30	1
Dibromofluoromethane	102		75 - 120	02/05/16 07:30	02/15/16 12:30	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	02/05/16 07:30	02/15/16 12:30	1
Toluene-d8 (Surr)	119		75 - 122	02/05/16 07:30	02/15/16 12:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20	F1	0.20	0.087	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Date Collected: 02/04/16 08:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4-Chloroaniline	<0.79	F1	0.79	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Hexachlorocyclopentadiene	<0.79	F1	0.79	0.23	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2-Methylnaphthalene	0.038	J	0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,4-Dinitrophenol	<0.79	F1	0.79	0.69	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4-Bromophenyl phenyl ether	<0.20	F1	0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Pentachlorophenol	<0.79	F1	0.79	0.63	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
N-Nitrosodiphenylamine	<0.20	F1	0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Phenanthrene	0.083		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Pyrene	0.020	J F1	0.039	0.0078	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Butyl benzyl phthalate	<0.20	F1	0.20	0.075	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Benzo[a]anthracene	0.0094	J	0.039	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Date Collected: 02/04/16 08:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
3,3'-Dichlorobenzidine	<0.20	F2	0.20	0.055	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Bis(2-ethylhexyl) phthalate	<0.20	F1	0.20	0.072	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Benzo[b]fluoranthene	<0.039	F1	0.039	0.0085	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Benzo[k]fluoranthene	<0.039	F1	0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
Benzo[g,h,i]perylene	0.021	J	0.039	0.013	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	109		25 - 110	02/08/16 07:15	02/15/16 14:32	1
Phenol-d5	114	X	31 - 110	02/08/16 07:15	02/15/16 14:32	1
Nitrobenzene-d5	103		25 - 115	02/08/16 07:15	02/15/16 14:32	1
2-Fluorobiphenyl	95		25 - 119	02/08/16 07:15	02/15/16 14:32	1
2,4,6-Tribromophenol	79		35 - 137	02/08/16 07:15	02/15/16 14:32	1
Terphenyl-d14	111		36 - 134	02/08/16 07:15	02/15/16 14:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0	F1 F2	1.0	0.21	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Arsenic	5.9		0.50	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Barium	49		0.50	0.092	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Beryllium	0.64		0.20	0.044	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Boron	14	F1	2.5	0.35	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Calcium	72000		100	33	mg/Kg	☼	02/10/16 09:30	02/12/16 01:05	10
Chromium	18	B	0.50	0.087	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Cobalt	12		0.25	0.057	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Copper	22		0.50	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Iron	19000	B	10	3.9	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Lead	12		0.25	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Magnesium	27000		5.0	2.0	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Manganese	330		0.50	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Nickel	32		0.50	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Potassium	2900		25	4.1	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Selenium	<0.50	F1	0.50	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Sodium	290	B	50	6.7	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Vanadium	20		0.25	0.074	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1
Zinc	51	F1	1.0	0.32	mg/Kg	☼	02/10/16 09:30	02/11/16 03:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.84		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 00:39	1
Boron	0.70	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Date Collected: 02/04/16 08:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 00:39	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:39	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:39	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 00:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 00:39	1
Manganese	1.7		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:39	1
Nickel	0.047	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 00:39	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:39	1
Zinc	0.53	B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 00:39	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.038		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 17:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0097	mg/Kg	☼	02/08/16 16:10	02/09/16 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			02/11/16 16:24	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
trans-1,3-Dichloropropene	<0.0039 *		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	02/05/16 07:30	02/15/16 12:55	1
Dibromofluoromethane	106		75 - 120	02/05/16 07:30	02/15/16 12:55	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/05/16 07:30	02/15/16 12:55	1
Toluene-d8 (Surr)	122		75 - 122	02/05/16 07:30	02/15/16 12:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Naphthalene	0.024	J	0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2-Methylnaphthalene	0.048		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Phenanthrene	0.070		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Pyrene	0.017	J	0.038	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Benzo[a]anthracene	0.0082	J	0.038	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
Benzo[g,h,i]perylene	0.016	J	0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		25 - 110	02/08/16 07:15	02/15/16 15:01	1
Phenol-d5	111	X	31 - 110	02/08/16 07:15	02/15/16 15:01	1
Nitrobenzene-d5	100		25 - 115	02/08/16 07:15	02/15/16 15:01	1
2-Fluorobiphenyl	92		25 - 119	02/08/16 07:15	02/15/16 15:01	1
2,4,6-Tribromophenol	65		35 - 137	02/08/16 07:15	02/15/16 15:01	1
Terphenyl-d14	110		36 - 134	02/08/16 07:15	02/15/16 15:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Arsenic	5.7		0.58	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Barium	43		0.58	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Beryllium	0.66		0.23	0.050	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Boron	16		2.9	0.40	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Calcium	90000		120	37	mg/Kg	☼	02/10/16 09:30	02/12/16 01:55	10
Chromium	18	B	0.58	0.099	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Cobalt	13		0.29	0.065	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Copper	22		0.58	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Lead	12		0.29	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Magnesium	31000		5.8	2.3	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Manganese	350		0.58	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Nickel	34		0.58	0.16	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Potassium	3000		29	4.7	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Selenium	0.74		0.58	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Sodium	210	B	58	7.6	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Thallium	0.37	J	0.58	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Vanadium	20		0.29	0.084	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1
Zinc	50		1.2	0.37	mg/Kg	☼	02/10/16 09:30	02/11/16 03:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 00:53	1
Boron	0.12	J B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 00:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:53	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:53	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 00:53	1
Lead	0.028		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 00:53	1
Manganese	1.9		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:53	1
Nickel	0.044	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 00:53	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:53	1
Zinc	0.47	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 00:53	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:44	02/12/16 18:25	1
Manganese	0.073		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 18:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0096	mg/Kg	☼	02/08/16 16:10	02/09/16 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			02/11/16 16:31	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
trans-1,3-Dichloropropene	<0.0039 *		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	02/05/16 07:30	02/15/16 13:20	1
Dibromofluoromethane	102		75 - 120	02/05/16 07:30	02/15/16 13:20	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/05/16 07:30	02/15/16 13:20	1
Toluene-d8 (Surr)	120		75 - 122	02/05/16 07:30	02/15/16 13:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Phenanthrene	0.050		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Pyrene	0.013 J		0.039	0.0079	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Benzo[a]anthracene	0.0074 J		0.039	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		25 - 110	02/08/16 07:15	02/15/16 15:30	1
Phenol-d5	96		31 - 110	02/08/16 07:15	02/15/16 15:30	1
Nitrobenzene-d5	92		25 - 115	02/08/16 07:15	02/15/16 15:30	1
2-Fluorobiphenyl	86		25 - 119	02/08/16 07:15	02/15/16 15:30	1
2,4,6-Tribromophenol	52		35 - 137	02/08/16 07:15	02/15/16 15:30	1
Terphenyl-d14	106		36 - 134	02/08/16 07:15	02/15/16 15:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Arsenic	5.6		0.57	0.26	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Barium	49		0.57	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Boron	15		2.8	0.40	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Calcium	77000		110	36	mg/Kg	☼	02/10/16 09:30	02/12/16 02:02	10
Chromium	18	B	0.57	0.097	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Copper	24		0.57	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Lead	13		0.28	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Magnesium	26000		5.7	2.3	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Manganese	340		0.57	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Nickel	35		0.57	0.15	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Potassium	2900		28	4.6	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Sodium	190	B	57	7.5	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Vanadium	20		0.28	0.083	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1
Zinc	53		1.1	0.36	mg/Kg	☼	02/10/16 09:30	02/11/16 03:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.79		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 00:58	1
Boron	0.89	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 00:58	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:58	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:58	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 00:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 00:58	1
Manganese	1.9		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:58	1
Nickel	0.052	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:58	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 00:58	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:58	1
Zinc	0.35	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 00:58	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.30		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 18:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0090	mg/Kg	☼	02/08/16 16:10	02/09/16 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			02/11/16 16:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Date Collected: 02/04/16 10:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Bromoform	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
trans-1,3-Dichloropropene	<0.0041	*	0.0041	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Vinyl chloride	<0.0041		0.0041	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	02/05/16 07:30	02/15/16 13:45	1
Dibromofluoromethane	105		75 - 120	02/05/16 07:30	02/15/16 13:45	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/05/16 07:30	02/15/16 13:45	1
Toluene-d8 (Surr)	121		75 - 122	02/05/16 07:30	02/15/16 13:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Date Collected: 02/04/16 10:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Naphthalene	0.048		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2-Methylnaphthalene	0.094		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Phenanthrene	0.097		0.039	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Fluoranthene	0.024 J		0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Pyrene	0.032 J		0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Benzo[a]anthracene	0.011 J		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Date Collected: 02/04/16 10:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Benzo[b]fluoranthene	0.018	J	0.039	0.0084	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		25 - 110				02/08/16 07:15	02/15/16 15:59	1
Phenol-d5	103		31 - 110				02/08/16 07:15	02/15/16 15:59	1
Nitrobenzene-d5	90		25 - 115				02/08/16 07:15	02/15/16 15:59	1
2-Fluorobiphenyl	86		25 - 119				02/08/16 07:15	02/15/16 15:59	1
2,4,6-Tribromophenol	78		35 - 137				02/08/16 07:15	02/15/16 15:59	1
Terphenyl-d14	111		36 - 134				02/08/16 07:15	02/15/16 15:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Arsenic	6.2		0.59	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Barium	44		0.59	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Beryllium	0.65		0.24	0.051	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Boron	15		3.0	0.41	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Calcium	64000		120	38	mg/Kg	☼	02/10/16 09:30	02/12/16 02:09	10
Chromium	19	B	0.59	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Cobalt	14		0.30	0.067	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Copper	27		0.59	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Iron	18000	B	12	4.6	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Lead	13		0.30	0.15	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Magnesium	26000		5.9	2.4	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Manganese	350		0.59	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Nickel	37		0.59	0.16	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Potassium	2900		30	4.8	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Sodium	590	B	59	7.8	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Vanadium	20		0.30	0.086	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1
Zinc	52		1.2	0.37	mg/Kg	☼	02/10/16 09:30	02/11/16 03:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:03	1
Boron	0.67	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Date Collected: 02/04/16 10:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:03	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:03	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:03	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:03	1
Manganese	2.0		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:03	1
Nickel	0.056	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:03	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:03	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:03	1
Zinc	0.26	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.079		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 18:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0098	mg/Kg	☼	02/08/16 16:10	02/09/16 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			02/11/16 16:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
trans-1,3-Dichloropropene	<0.0041	*	0.0041	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	02/05/16 07:30	02/15/16 14:10	1
Dibromofluoromethane	104		75 - 120	02/05/16 07:30	02/15/16 14:10	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/05/16 07:30	02/15/16 14:10	1
Toluene-d8 (Surr)	117		75 - 122	02/05/16 07:30	02/15/16 14:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Naphthalene	0.061		0.039	0.0061	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2-Methylnaphthalene	0.17		0.039	0.0073	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Phenanthrene	0.11		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Pyrene	0.017 J		0.039	0.0079	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/16/16 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	109		25 - 110	02/08/16 07:15	02/16/16 14:14	1
Phenol-d5	112	X	31 - 110	02/08/16 07:15	02/16/16 14:14	1
Nitrobenzene-d5	96		25 - 115	02/08/16 07:15	02/16/16 14:14	1
2-Fluorobiphenyl	100		25 - 119	02/08/16 07:15	02/16/16 14:14	1
2,4,6-Tribromophenol	81		35 - 137	02/08/16 07:15	02/16/16 14:14	1
Terphenyl-d14	136	X	36 - 134	02/08/16 07:15	02/16/16 14:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Arsenic	5.5		0.56	0.26	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Barium	43		0.56	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Beryllium	0.61		0.22	0.048	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Boron	14		2.8	0.39	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Calcium	79000		110	36	mg/Kg	☼	02/10/16 09:30	02/12/16 02:15	10
Chromium	16	B	0.56	0.096	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Cobalt	13		0.28	0.063	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Copper	22		0.56	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Iron	18000	B	11	4.3	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Lead	12		0.28	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Magnesium	28000		5.6	2.3	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Manganese	380		0.56	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Nickel	33		0.56	0.15	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Potassium	2800		28	4.6	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Sodium	330	B	56	7.4	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Thallium	0.54	J	0.56	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Vanadium	17		0.28	0.082	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1
Zinc	48		1.1	0.35	mg/Kg	☼	02/10/16 09:30	02/11/16 03:58	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:09	1
Boron	0.88	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:09	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:09	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:09	1
Manganese	1.8		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:09	1
Nickel	0.049	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:09	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:09	1
Zinc	0.42	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.065		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 18:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.019	0.0099	mg/Kg	☼	02/08/16 16:10	02/09/16 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU			02/11/16 16:52	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Date Collected: 02/04/16 10:30

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
trans-1,3-Dichloropropene	<0.0044 *		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	02/05/16 07:30	02/15/16 14:35	1
Dibromofluoromethane	103		75 - 120	02/05/16 07:30	02/15/16 14:35	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/05/16 07:30	02/15/16 14:35	1
Toluene-d8 (Surr)	119		75 - 122	02/05/16 07:30	02/15/16 14:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Date Collected: 02/04/16 10:30

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2-Methylnaphthalene	0.023	J	0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Phenanthrene	0.053		0.039	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Pyrene	0.012	J	0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Benzo[a]anthracene	0.0056	J	0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Date Collected: 02/04/16 10:30

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112	X	25 - 110	02/08/16 07:15	02/15/16 16:58	1
Phenol-d5	109		31 - 110	02/08/16 07:15	02/15/16 16:58	1
Nitrobenzene-d5	107		25 - 115	02/08/16 07:15	02/15/16 16:58	1
2-Fluorobiphenyl	97		25 - 119	02/08/16 07:15	02/15/16 16:58	1
2,4,6-Tribromophenol	80		35 - 137	02/08/16 07:15	02/15/16 16:58	1
Terphenyl-d14	121		36 - 134	02/08/16 07:15	02/15/16 16:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Arsenic	6.4		0.53	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Barium	45		0.53	0.097	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Beryllium	0.67		0.21	0.046	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Boron	14		2.7	0.37	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Calcium	75000		110	34	mg/Kg	☼	02/10/16 09:30	02/12/16 02:22	10
Chromium	18 B		0.53	0.091	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Cobalt	15		0.27	0.060	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Copper	23		0.53	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Iron	19000 B		11	4.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Lead	15		0.27	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Magnesium	27000		5.3	2.2	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Manganese	410		0.53	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Nickel	36		0.53	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Potassium	2900		27	4.3	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Selenium	0.31 J		0.53	0.26	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Sodium	350 B		53	7.0	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Vanadium	19		0.27	0.077	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1
Zinc	51		1.1	0.34	mg/Kg	☼	02/10/16 09:30	02/11/16 04:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20 J		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:14	1
Boron	0.40 J B		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Date Collected: 02/04/16 10:30

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:14	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:14	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:14	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:14	1
Manganese	1.6		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:14	1
Nickel	0.041	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:14	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:14	1
Zinc	0.11	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.011	J	0.025	0.010	mg/L		02/10/16 08:44	02/12/16 18:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.010	mg/Kg	☼	02/08/16 16:10	02/09/16 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			02/11/16 16:59	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Date Collected: 02/04/16 10:35

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
trans-1,3-Dichloropropene	<0.0039 *		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	02/05/16 07:30	02/15/16 15:00	1
Dibromofluoromethane	102		75 - 120	02/05/16 07:30	02/15/16 15:00	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/05/16 07:30	02/15/16 15:00	1
Toluene-d8 (Surr)	120		75 - 122	02/05/16 07:30	02/15/16 15:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Date Collected: 02/04/16 10:35

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Naphthalene	0.043		0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2-Methylnaphthalene	0.068		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Phenanthrene	0.089		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Pyrene	0.021 J		0.038	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Benzo[a]anthracene	0.014 J		0.038	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Date Collected: 02/04/16 10:35

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		25 - 110	02/08/16 07:15	02/15/16 17:26	1
Phenol-d5	100		31 - 110	02/08/16 07:15	02/15/16 17:26	1
Nitrobenzene-d5	89		25 - 115	02/08/16 07:15	02/15/16 17:26	1
2-Fluorobiphenyl	88		25 - 119	02/08/16 07:15	02/15/16 17:26	1
2,4,6-Tribromophenol	68		35 - 137	02/08/16 07:15	02/15/16 17:26	1
Terphenyl-d14	116		36 - 134	02/08/16 07:15	02/15/16 17:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Arsenic	5.5		0.50	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Barium	45		0.50	0.092	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Beryllium	0.60		0.20	0.043	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Boron	14		2.5	0.35	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Calcium	80000		100	32	mg/Kg	☼	02/10/16 09:30	02/12/16 02:29	10
Chromium	18	B	0.50	0.086	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Cobalt	13		0.25	0.057	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Copper	22		0.50	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Iron	18000	B	10	3.9	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Lead	12		0.25	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Magnesium	26000		5.0	2.0	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Manganese	340		0.50	0.099	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Nickel	35		0.50	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Potassium	2800		25	4.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Selenium	0.62		0.50	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Sodium	200	B	50	6.6	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Vanadium	19		0.25	0.073	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1
Zinc	57		1.0	0.32	mg/Kg	☼	02/10/16 09:30	02/11/16 04:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.15	J	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:19	1
Boron	0.89	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Date Collected: 02/04/16 10:35

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:19	1
Cobalt	0.021	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:19	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:19	1
Manganese	2.1		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:19	1
Nickel	0.045	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:19	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:19	1
Zinc	0.34	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.036		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 18:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.010	mg/Kg	☼	02/08/16 16:10	02/09/16 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			02/11/16 17:13	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Benzene	<0.0038		0.0038	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Bromodichloromethane	<0.0038		0.0038	0.00063	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
2-Butanone (MEK)	<0.0038		0.0038	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Carbon tetrachloride	<0.0038		0.0038	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Chlorobenzene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Chloroform	<0.0038		0.0038	0.00073	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Chloromethane	<0.0038		0.0038	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Dibromochloromethane	<0.0038		0.0038	0.00043	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,1-Dichloroethane	<0.0038		0.0038	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,2-Dichloropropane	<0.0038		0.0038	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Ethylbenzene	<0.0038		0.0038	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Methylene Chloride	<0.0038		0.0038	0.0028	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Styrene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Tetrachloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
trans-1,3-Dichloropropene	<0.0038	*	0.0038	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00087	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Vinyl chloride	<0.0038		0.0038	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	02/05/16 07:30	02/15/16 15:25	1
Dibromofluoromethane	102		75 - 120	02/05/16 07:30	02/15/16 15:25	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/05/16 07:30	02/15/16 15:25	1
Toluene-d8 (Surr)	124	X	75 - 122	02/05/16 07:30	02/15/16 15:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Phenanthrene	0.049		0.038	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Fluoranthene	0.012 J		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Pyrene	0.020 J		0.038	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Benzo[a]anthracene	0.0055 J		0.038	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Benzo[b]fluoranthene	0.014	J	0.038	0.0083	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		25 - 110	02/08/16 07:15	02/15/16 17:55	1
Phenol-d5	101		31 - 110	02/08/16 07:15	02/15/16 17:55	1
Nitrobenzene-d5	94		25 - 115	02/08/16 07:15	02/15/16 17:55	1
2-Fluorobiphenyl	88		25 - 119	02/08/16 07:15	02/15/16 17:55	1
2,4,6-Tribromophenol	67		35 - 137	02/08/16 07:15	02/15/16 17:55	1
Terphenyl-d14	115		36 - 134	02/08/16 07:15	02/15/16 17:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Arsenic	5.5		0.58	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Barium	39		0.58	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Beryllium	0.52		0.23	0.050	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Boron	13		2.9	0.40	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Calcium	80000		120	37	mg/Kg	☼	02/10/16 09:30	02/12/16 02:36	10
Chromium	15	B	0.58	0.099	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Cobalt	12		0.29	0.065	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Copper	20		0.58	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Iron	15000	B	12	4.4	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Lead	11		0.29	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Magnesium	31000		5.8	2.3	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Manganese	300		0.58	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Nickel	28		0.58	0.16	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Potassium	2400		29	4.7	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Sodium	530	B	58	7.6	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Vanadium	18		0.29	0.084	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1
Zinc	45		1.2	0.37	mg/Kg	☼	02/10/16 09:30	02/11/16 04:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:25	1
Boron	0.74	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:25	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:25	1
Iron	0.20	J B	0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:25	1
Manganese	1.5		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:25	1
Nickel	0.033	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:25	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:25	1
Zinc	0.40	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.013	J	0.025	0.010	mg/L		02/10/16 08:44	02/12/16 19:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0090	mg/Kg	☼	02/08/16 16:10	02/09/16 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			02/11/16 17:20	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
trans-1,3-Dichloropropene	<0.0039 *		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122	02/05/16 07:30	02/15/16 15:50	1
Dibromofluoromethane	106		75 - 120	02/05/16 07:30	02/15/16 15:50	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	02/05/16 07:30	02/15/16 15:50	1
Toluene-d8 (Surr)	120		75 - 122	02/05/16 07:30	02/15/16 15:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Phenanthrene	0.055		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Pyrene	0.013 J		0.039	0.0078	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Benzo[a]anthracene	0.0082 J		0.039	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	108		25 - 110	02/08/16 07:15	02/15/16 18:24	1
Phenol-d5	114	X	31 - 110	02/08/16 07:15	02/15/16 18:24	1
Nitrobenzene-d5	103		25 - 115	02/08/16 07:15	02/15/16 18:24	1
2-Fluorobiphenyl	96		25 - 119	02/08/16 07:15	02/15/16 18:24	1
2,4,6-Tribromophenol	85		35 - 137	02/08/16 07:15	02/15/16 18:24	1
Terphenyl-d14	126		36 - 134	02/08/16 07:15	02/15/16 18:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Arsenic	6.3		0.51	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Barium	39		0.51	0.093	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Beryllium	0.56		0.20	0.044	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Boron	14		2.5	0.35	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Calcium	96000		100	33	mg/Kg	☼	02/10/16 09:30	02/12/16 02:58	10
Chromium	17	B	0.51	0.087	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Cobalt	13		0.25	0.057	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Copper	23		0.51	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Iron	17000	B	10	3.9	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Lead	12		0.25	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Magnesium	31000		5.1	2.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Manganese	440		0.51	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Nickel	34		0.51	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Potassium	2700		25	4.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Sodium	230	B	51	6.7	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Vanadium	19		0.25	0.074	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1
Zinc	50		1.0	0.32	mg/Kg	☼	02/10/16 09:30	02/11/16 04:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:30	1
Boron	0.84	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:30	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:30	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:30	1
Manganese	2.0		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:30	1
Nickel	0.055	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:30	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:30	1
Zinc	0.58	B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.087		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 19:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 18:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 18:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0095	mg/Kg	☼	02/08/16 16:10	02/09/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			02/11/16 17:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Date Collected: 02/04/16 12:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
trans-1,3-Dichloropropene	<0.0041	*	0.0041	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	02/05/16 07:30	02/15/16 16:15	1
Dibromofluoromethane	106		75 - 120	02/05/16 07:30	02/15/16 16:15	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/05/16 07:30	02/15/16 16:15	1
Toluene-d8 (Surr)	121		75 - 122	02/05/16 07:30	02/15/16 16:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Date Collected: 02/04/16 12:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Phenanthrene	0.10		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Anthracene	0.0095 J		0.039	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Fluoranthene	0.10		0.039	0.0073	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Pyrene	0.11		0.039	0.0078	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Benzo[a]anthracene	0.042		0.039	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Date Collected: 02/04/16 12:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.071		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Benzo[b]fluoranthene	0.089		0.039	0.0085	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Benzo[k]fluoranthene	0.023 J		0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Benzo[a]pyrene	0.046		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Indeno[1,2,3-cd]pyrene	0.028 J		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
Benzo[g,h,i]perylene	0.034 J		0.039	0.013	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		25 - 110	02/08/16 07:15	02/15/16 18:54	1
Phenol-d5	111	X	31 - 110	02/08/16 07:15	02/15/16 18:54	1
Nitrobenzene-d5	101		25 - 115	02/08/16 07:15	02/15/16 18:54	1
2-Fluorobiphenyl	95		25 - 119	02/08/16 07:15	02/15/16 18:54	1
2,4,6-Tribromophenol	91		35 - 137	02/08/16 07:15	02/15/16 18:54	1
Terphenyl-d14	130		36 - 134	02/08/16 07:15	02/15/16 18:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Arsenic	7.2		0.54	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Barium	48		0.54	0.099	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Beryllium	0.59		0.22	0.047	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Boron	14		2.7	0.38	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Cadmium	0.10 J B		0.11	0.031	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Calcium	100000		110	35	mg/Kg	☼	02/10/16 09:30	02/12/16 03:05	10
Chromium	17 B		0.54	0.093	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Cobalt	13		0.27	0.061	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Copper	22		0.54	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Iron	18000 B		11	4.2	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Lead	14		0.27	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Magnesium	33000		5.4	2.2	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Manganese	390		0.54	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Nickel	34		0.54	0.15	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Potassium	2800		27	4.4	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Sodium	1500 B		54	7.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Thallium	0.31 J		0.54	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Vanadium	20		0.27	0.079	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1
Zinc	56		1.1	0.34	mg/Kg	☼	02/10/16 09:30	02/11/16 04:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:35	1
Boron	0.97 B		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Date Collected: 02/04/16 12:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Cobalt	0.014	J	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Iron	<0.40		0.40	0.20	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Manganese	2.1		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Nickel	0.053	B	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Silver	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:35	1
Zinc	0.45	J B	0.50	0.020	mg/L	-	02/10/16 08:40	02/11/16 01:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.92		0.025	0.010	mg/L	-	02/10/16 08:44	02/12/16 19:35	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/10/16 08:40	02/11/16 18:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/10/16 08:40	02/11/16 18:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/09/16 15:45	02/11/16 22:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.011	mg/Kg	☼	02/08/16 16:10	02/09/16 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU	-		02/11/16 17:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
trans-1,3-Dichloropropene	<0.0040 *		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	02/05/16 07:30	02/15/16 16:40	1
Dibromofluoromethane	104		75 - 120	02/05/16 07:30	02/15/16 16:40	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/05/16 07:30	02/15/16 16:40	1
Toluene-d8 (Surr)	119		75 - 122	02/05/16 07:30	02/15/16 16:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Naphthalene	0.070		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2-Methylnaphthalene	0.15		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Phenanthrene	0.090		0.039	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Pyrene	0.021 J		0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Benzo[a]anthracene	0.010 J		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
Benzo[g,h,i]perylene	0.017	J	0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		25 - 110	02/08/16 07:15	02/15/16 19:23	1
Phenol-d5	103		31 - 110	02/08/16 07:15	02/15/16 19:23	1
Nitrobenzene-d5	94		25 - 115	02/08/16 07:15	02/15/16 19:23	1
2-Fluorobiphenyl	87		25 - 119	02/08/16 07:15	02/15/16 19:23	1
2,4,6-Tribromophenol	82		35 - 137	02/08/16 07:15	02/15/16 19:23	1
Terphenyl-d14	112		36 - 134	02/08/16 07:15	02/15/16 19:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.93		0.93	0.19	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Arsenic	5.9		0.46	0.21	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Barium	45		0.46	0.085	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Beryllium	0.58		0.19	0.040	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Boron	11		2.3	0.32	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Cadmium	<0.093		0.093	0.027	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Calcium	77000		93	30	mg/Kg	☼	02/10/16 09:30	02/12/16 03:12	10
Chromium	18	B	0.46	0.080	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Cobalt	14		0.23	0.053	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Copper	25		0.46	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Iron	17000	B	9.3	3.6	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Lead	13		0.23	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Magnesium	26000		4.6	1.9	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Manganese	340		0.46	0.092	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Nickel	35		0.46	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Potassium	2600		23	3.8	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Selenium	0.36	J	0.46	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Sodium	530	B	46	6.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Vanadium	18		0.23	0.068	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1
Zinc	52		0.93	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 04:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:41	1
Boron	0.89	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 01:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:41	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:41	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 01:41	1
Lead	0.0083		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 01:41	1
Manganese	1.9		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:41	1
Nickel	0.069	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 01:41	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 01:41	1
Zinc	0.20	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 01:41	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:44	02/12/16 19:42	1
Manganese	0.033		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 19:42	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 18:11	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 18:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.020	0.011	mg/Kg	☼	02/08/16 16:10	02/09/16 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/11/16 17:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Date Collected: 02/04/16 12:40

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 80.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Chloroethane	<0.0044		0.0044	0.0019	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
trans-1,3-Dichloropropene	<0.0044 *		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	02/05/16 07:30	02/15/16 17:05	1
Dibromofluoromethane	103		75 - 120	02/05/16 07:30	02/15/16 17:05	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/05/16 07:30	02/15/16 17:05	1
Toluene-d8 (Surr)	120		75 - 122	02/05/16 07:30	02/15/16 17:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.061	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
1,4-Dichlorobenzene	<0.21		0.21	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Date Collected: 02/04/16 12:40

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2-Methylphenol	<0.21		0.21	0.065	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.047	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.050	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,4-Dimethylphenol	<0.41		0.41	0.15	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Naphthalene	0.042		0.041	0.0063	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4-Chloroaniline	<0.82		0.82	0.19	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,4,5-Trichlorophenol	<0.41		0.41	0.093	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Hexachlorocyclopentadiene	<0.82		0.82	0.23	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2-Methylnaphthalene	0.12		0.041	0.0075	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,6-Dinitrotoluene	<0.21		0.21	0.080	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2-Nitrophenol	<0.41		0.41	0.096	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Dimethyl phthalate	<0.21		0.21	0.053	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,4-Dinitrophenol	<0.82		0.82	0.72	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Acenaphthylene	0.022 J		0.041	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Acenaphthene	0.028 J		0.041	0.0073	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4-Nitrophenol	<0.82		0.82	0.39	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Fluorene	0.028 J		0.041	0.0057	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Hexachlorobenzene	<0.082		0.082	0.0095	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Diethyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Pentachlorophenol	<0.82		0.82	0.65	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.33	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Phenanthrene	0.48		0.041	0.0057	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Anthracene	0.090		0.041	0.0068	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Di-n-butyl phthalate	<0.21		0.21	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Fluoranthene	0.89		0.041	0.0076	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Pyrene	0.98		0.041	0.0081	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Butyl benzyl phthalate	0.18 J		0.21	0.078	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Benzo[a]anthracene	0.40		0.041	0.0055	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Date Collected: 02/04/16 12:40

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 80.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.46		0.041	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Bis(2-ethylhexyl) phthalate	0.12	J	0.21	0.075	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Benzo[b]fluoranthene	0.81		0.041	0.0088	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Benzo[k]fluoranthene	0.32		0.041	0.012	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Benzo[a]pyrene	0.43		0.041	0.0079	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Indeno[1,2,3-cd]pyrene	0.25		0.041	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Dibenz(a,h)anthracene	0.049		0.041	0.0079	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
Benzo[g,h,i]perylene	0.27		0.041	0.013	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/08/16 07:15	02/16/16 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	02/08/16 07:15	02/16/16 14:39	1
Phenol-d5	54		31 - 110	02/08/16 07:15	02/16/16 14:39	1
Nitrobenzene-d5	63		25 - 115	02/08/16 07:15	02/16/16 14:39	1
2-Fluorobiphenyl	62		25 - 119	02/08/16 07:15	02/16/16 14:39	1
2,4,6-Tribromophenol	49		35 - 137	02/08/16 07:15	02/16/16 14:39	1
Terphenyl-d14	94		36 - 134	02/08/16 07:15	02/16/16 14:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Arsenic	6.9		0.54	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Barium	91		0.54	0.099	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Beryllium	0.63		0.22	0.047	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Boron	14		2.7	0.38	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Cadmium	0.44	B	0.11	0.031	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Calcium	81000		110	35	mg/Kg	☼	02/10/16 09:30	02/12/16 03:19	10
Chromium	21	B	0.54	0.093	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Cobalt	12		0.27	0.061	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Copper	55		0.54	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Iron	21000	B	11	4.2	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Lead	820		0.27	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Magnesium	28000		5.4	2.2	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Manganese	370		0.54	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Nickel	35		0.54	0.15	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Potassium	2500		27	4.4	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Selenium	0.37	J	0.54	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Silver	0.11	J	0.27	0.063	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Sodium	1300	B	54	7.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Vanadium	20		0.27	0.079	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1
Zinc	200		1.1	0.34	mg/Kg	☼	02/10/16 09:30	02/11/16 04:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 01:54	1
Boron	0.68	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 01:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Date Collected: 02/04/16 12:40

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 80.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0024	J	0.0050	0.0020	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Cobalt	0.017	J	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Iron	<0.40		0.40	0.20	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Lead	0.14		0.0075	0.0075	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Manganese	1.8		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Nickel	0.054	B	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Silver	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 01:54	1
Zinc	0.21	J B	0.50	0.020	mg/L	-	02/10/16 08:40	02/11/16 01:54	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21		0.0075	0.0075	mg/L	-	02/10/16 08:44	02/12/16 19:48	1
Manganese	0.60		0.025	0.010	mg/L	-	02/10/16 08:44	02/12/16 19:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/10/16 08:40	02/11/16 18:15	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/10/16 08:40	02/11/16 18:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/09/16 15:45	02/11/16 22:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.011	mg/Kg	☼	02/08/16 16:10	02/09/16 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU	-		02/11/16 17:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Date Collected: 02/04/16 12:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0040	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
trans-1,3-Dichloropropene	<0.0051	*	0.0051	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Vinyl acetate	<0.0051		0.0051	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	02/05/16 07:30	02/15/16 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	02/05/16 07:30	02/15/16 17:30	1
Dibromofluoromethane	101		75 - 120	02/05/16 07:30	02/15/16 17:30	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	02/05/16 07:30	02/15/16 17:30	1
Toluene-d8 (Surr)	121		75 - 122	02/05/16 07:30	02/15/16 17:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Date Collected: 02/04/16 12:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Naphthalene	0.050		0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2-Methylnaphthalene	0.15		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Phenanthrene	0.14		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Anthracene	0.018 J		0.038	0.0065	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Fluoranthene	0.16		0.038	0.0072	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Pyrene	0.17		0.038	0.0077	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Benzo[a]anthracene	0.065		0.038	0.0052	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Date Collected: 02/04/16 12:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Benzo[b]fluoranthene	0.15		0.038	0.0083	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Benzo[a]pyrene	0.069		0.038	0.0075	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Indeno[1,2,3-cd]pyrene	0.041		0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
Benzo[g,h,i]perylene	0.047		0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/16/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		25 - 110	02/08/16 07:15	02/16/16 15:03	1
Phenol-d5	93		31 - 110	02/08/16 07:15	02/16/16 15:03	1
Nitrobenzene-d5	85		25 - 115	02/08/16 07:15	02/16/16 15:03	1
2-Fluorobiphenyl	86		25 - 119	02/08/16 07:15	02/16/16 15:03	1
2,4,6-Tribromophenol	52		35 - 137	02/08/16 07:15	02/16/16 15:03	1
Terphenyl-d14	132		36 - 134	02/08/16 07:15	02/16/16 15:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Arsenic	5.9		0.58	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Barium	45		0.58	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Beryllium	0.66		0.23	0.050	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Boron	15		2.9	0.40	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Calcium	71000		120	37	mg/Kg	☼	02/10/16 09:30	02/12/16 03:25	10
Chromium	17 B		0.58	0.099	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Cobalt	14		0.29	0.065	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Copper	30		0.58	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Iron	18000 B		12	4.4	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Lead	19		0.29	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Magnesium	25000		5.8	2.3	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Manganese	340		0.58	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Nickel	37		0.58	0.16	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Potassium	2800		29	4.7	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Selenium	0.47 J		0.58	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Sodium	220 B		58	7.6	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Thallium	0.28 J		0.58	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Vanadium	18		0.29	0.084	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1
Zinc	53		1.2	0.36	mg/Kg	☼	02/10/16 09:30	02/11/16 04:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:00	1
Boron	0.74 B		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Date Collected: 02/04/16 12:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 02:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:00	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:00	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 02:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 02:00	1
Manganese	1.9		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:00	1
Nickel	0.040	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 02:00	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:00	1
Zinc	0.94	B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 02:00	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.30		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 19:55	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 18:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 18:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 23:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.010	mg/Kg	☼	02/08/16 16:10	02/09/16 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			02/11/16 17:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Bromodichloromethane	<0.0039		0.0039	0.00065	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Chlorobenzene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Toluene	<0.0039		0.0039	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
trans-1,3-Dichloropropene	<0.0039 *		0.0039	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122	02/05/16 07:30	02/15/16 17:55	1
Dibromofluoromethane	106		75 - 120	02/05/16 07:30	02/15/16 17:55	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/05/16 07:30	02/15/16 17:55	1
Toluene-d8 (Surr)	122		75 - 122	02/05/16 07:30	02/15/16 17:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Naphthalene	0.019	J	0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2-Methylnaphthalene	0.059		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Phenanthrene	0.075		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Fluoranthene	0.033	J	0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Pyrene	0.052		0.038	0.0076	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Benzo[a]anthracene	0.014	J	0.038	0.0052	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.036	J	0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Benzo[a]pyrene	0.016	J	0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/16/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		25 - 110	02/08/16 07:15	02/16/16 15:28	1
Phenol-d5	80		31 - 110	02/08/16 07:15	02/16/16 15:28	1
Nitrobenzene-d5	86		25 - 115	02/08/16 07:15	02/16/16 15:28	1
2-Fluorobiphenyl	86		25 - 119	02/08/16 07:15	02/16/16 15:28	1
2,4,6-Tribromophenol	47		35 - 137	02/08/16 07:15	02/16/16 15:28	1
Terphenyl-d14	130		36 - 134	02/08/16 07:15	02/16/16 15:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.98		0.98	0.20	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Arsenic	4.6		0.49	0.23	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Barium	37		0.49	0.090	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Beryllium	0.51		0.20	0.042	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Boron	11		2.4	0.34	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Cadmium	<0.098		0.098	0.028	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Calcium	62000		98	32	mg/Kg	☼	02/10/16 09:30	02/12/16 03:32	10
Chromium	14	B	0.49	0.084	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Cobalt	9.9		0.24	0.055	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Copper	19		0.49	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Iron	14000	B	9.8	3.8	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Lead	13		0.24	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Magnesium	20000		4.9	2.0	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Manganese	300		0.49	0.097	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Nickel	26		0.49	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Potassium	2200		24	4.0	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Sodium	1200	B	49	6.5	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Thallium	0.29	J	0.49	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Vanadium	16		0.24	0.072	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1
Zinc	62		0.98	0.31	mg/Kg	☼	02/10/16 09:30	02/11/16 04:53	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.80		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:05	1
Boron	0.76	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0020	J	0.0050	0.0020	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Cobalt	0.022	J	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Iron	0.21	J B	0.40	0.20	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Manganese	2.3		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Nickel	0.029	B	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Silver	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:05	1
Zinc	0.36	J B	0.50	0.020	mg/L	-	02/10/16 08:40	02/11/16 02:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.0		0.025	0.010	mg/L	-	02/10/16 08:44	02/12/16 20:02	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/10/16 08:40	02/11/16 18:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/10/16 08:40	02/11/16 18:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/09/16 15:45	02/11/16 23:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.010	mg/Kg	☼	02/08/16 16:10	02/09/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU	-		02/11/16 18:02	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Carbon tetrachloride	<0.0043		0.0043	0.00093	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Chloroform	<0.0043		0.0043	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,3-Dichloropropene, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00069	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
trans-1,3-Dichloropropene	<0.0043	*	0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	02/05/16 07:30	02/15/16 18:20	1
Dibromofluoromethane	105		75 - 120	02/05/16 07:30	02/15/16 18:20	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	02/05/16 07:30	02/15/16 18:20	1
Toluene-d8 (Surr)	119		75 - 122	02/05/16 07:30	02/15/16 18:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Naphthalene	0.064		0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2-Methylnaphthalene	0.14		0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Phenanthrene	0.093		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Pyrene	0.025 J		0.038	0.0077	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.027	J	0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		25 - 110	02/08/16 07:15	02/15/16 21:19	1
Phenol-d5	92		31 - 110	02/08/16 07:15	02/15/16 21:19	1
Nitrobenzene-d5	87		25 - 115	02/08/16 07:15	02/15/16 21:19	1
2-Fluorobiphenyl	84		25 - 119	02/08/16 07:15	02/15/16 21:19	1
2,4,6-Tribromophenol	70		35 - 137	02/08/16 07:15	02/15/16 21:19	1
Terphenyl-d14	149	X	36 - 134	02/08/16 07:15	02/15/16 21:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Arsenic	7.1		0.51	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Barium	41		0.51	0.094	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Beryllium	0.56		0.21	0.044	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Boron	14		2.6	0.36	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Calcium	80000		100	33	mg/Kg	☼	02/10/16 09:30	02/12/16 03:39	10
Chromium	16	B	0.51	0.088	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Cobalt	12		0.26	0.058	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Copper	22		0.51	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Iron	17000	B	10	4.0	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Lead	13		0.26	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Magnesium	27000		5.1	2.1	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Manganese	370		0.51	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Nickel	33		0.51	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Potassium	2700		26	4.2	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Selenium	0.49	J	0.51	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Sodium	280	B	51	6.8	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Thallium	0.39	J	0.51	0.25	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Vanadium	18		0.26	0.075	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1
Zinc	61		1.0	0.32	mg/Kg	☼	02/10/16 09:30	02/11/16 04:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:10	1
Boron	0.75	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 02:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:10	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:10	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 02:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 02:10	1
Manganese	2.0		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:10	1
Nickel	0.064	B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 02:10	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:10	1
Zinc	0.21	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 02:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.035		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 20:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 18:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 18:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 23:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020	0.011	mg/Kg	☼	02/08/16 16:10	02/09/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU			02/11/16 18:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Date Collected: 02/04/16 13:55

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Tetrachloroethene	0.0074		0.0043	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
trans-1,3-Dichloropropene	<0.0043	*	0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Trichloroethene	0.0056		0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122	02/05/16 07:30	02/15/16 18:45	1
Dibromofluoromethane	105		75 - 120	02/05/16 07:30	02/15/16 18:45	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/05/16 07:30	02/15/16 18:45	1
Toluene-d8 (Surr)	119		75 - 122	02/05/16 07:30	02/15/16 18:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Date Collected: 02/04/16 13:55

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Naphthalene	0.046		0.037	0.0057	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2-Methylnaphthalene	0.043		0.037	0.0068	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Acenaphthylene	0.052		0.037	0.0049	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Acenaphthene	0.77		0.037	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Dibenzofuran	0.51		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Fluorene	1.2		0.037	0.0052	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Carbazole	0.79		0.19	0.092	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Indeno[1,2,3-cd]pyrene	2.4		0.037	0.0096	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Dibenz(a,h)anthracene	0.84		0.037	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Date Collected: 02/04/16 13:55

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	2.0		0.037	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		25 - 110				02/08/16 07:15	02/15/16 21:48	1
Phenol-d5	100		31 - 110				02/08/16 07:15	02/15/16 21:48	1
Nitrobenzene-d5	90		25 - 115				02/08/16 07:15	02/15/16 21:48	1
2-Fluorobiphenyl	89		25 - 119				02/08/16 07:15	02/15/16 21:48	1
2,4,6-Tribromophenol	90		35 - 137				02/08/16 07:15	02/15/16 21:48	1
Terphenyl-d14	184	X	36 - 134				02/08/16 07:15	02/15/16 21:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	16		0.37	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Anthracene	6.5		0.37	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Fluoranthene	24		0.37	0.069	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Benzo[a]anthracene	12		0.37	0.050	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Chrysene	11		0.37	0.10	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Benzo[b]fluoranthene	14		0.37	0.080	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Benzo[k]fluoranthene	4.0		0.37	0.11	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10
Benzo[a]pyrene	8.5		0.37	0.072	mg/Kg	☼	02/08/16 07:15	02/16/16 16:16	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	29		0.73	0.15	mg/Kg	☼	02/08/16 07:15	02/16/16 17:31	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Arsenic	6.7		0.53	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Barium	78		0.53	0.097	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Beryllium	0.65		0.21	0.046	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Boron	11		2.6	0.37	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Cadmium	0.37	B	0.11	0.031	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Calcium	53000		110	34	mg/Kg	☼	02/10/16 09:30	02/12/16 03:46	10
Chromium	17	B	0.53	0.091	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Cobalt	12		0.26	0.060	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Copper	26		0.53	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Iron	18000	B	11	4.1	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Lead	59		0.26	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Magnesium	19000		5.3	2.1	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Manganese	370		0.53	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Nickel	29		0.53	0.14	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Potassium	2300		26	4.3	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Sodium	2100	B	53	7.0	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Vanadium	22		0.26	0.077	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1
Zinc	74		1.1	0.34	mg/Kg	☼	02/10/16 09:30	02/11/16 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Date Collected: 02/04/16 13:55

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 85.7

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:15	1
Boron	0.72	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:15	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 02:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:15	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:15	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 02:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 02:15	1
Manganese	1.4		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:15	1
Nickel	0.024	J B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 02:15	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:15	1
Zinc	0.18	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 02:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.65		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 20:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 18:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 18:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 23:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.018	0.0092	mg/Kg	☼	02/08/16 16:10	02/09/16 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			02/11/16 18:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
trans-1,3-Dichloropropene	<0.0044 *		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/05/16 07:30	02/15/16 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	02/05/16 07:30	02/15/16 19:10	1
Dibromofluoromethane	105		75 - 120	02/05/16 07:30	02/15/16 19:10	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	02/05/16 07:30	02/15/16 19:10	1
Toluene-d8 (Surr)	115		75 - 122	02/05/16 07:30	02/15/16 19:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Phenanthrene	0.014	J	0.038	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Fluoranthene	0.022	J	0.038	0.0071	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Pyrene	0.033	J	0.038	0.0076	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Benzo[a]anthracene	0.013	J	0.038	0.0051	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.029	J	0.038	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/15/16 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	103		25 - 110	02/08/16 07:15	02/15/16 22:17	1
Phenol-d5	105		31 - 110	02/08/16 07:15	02/15/16 22:17	1
Nitrobenzene-d5	95		25 - 115	02/08/16 07:15	02/15/16 22:17	1
2-Fluorobiphenyl	89		25 - 119	02/08/16 07:15	02/15/16 22:17	1
2,4,6-Tribromophenol	83		35 - 137	02/08/16 07:15	02/15/16 22:17	1
Terphenyl-d14	159	X	36 - 134	02/08/16 07:15	02/15/16 22:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Arsenic	6.7		0.48	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Barium	43		0.48	0.089	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Beryllium	0.73		0.19	0.042	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Boron	15		2.4	0.34	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Cadmium	0.037	J B	0.097	0.028	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Calcium	80000		97	31	mg/Kg	☼	02/10/16 09:30	02/12/16 03:53	10
Chromium	19	B	0.48	0.083	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Cobalt	13		0.24	0.055	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Copper	25		0.48	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Iron	19000	B	9.7	3.7	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Lead	14		0.24	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Magnesium	25000		4.8	2.0	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Manganese	330		0.48	0.096	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Nickel	37		0.48	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Potassium	3000		24	4.0	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Selenium	0.43	J	0.48	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Sodium	900	B	48	6.4	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Thallium	0.54		0.48	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Vanadium	21		0.24	0.071	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1
Zinc	58		0.97	0.31	mg/Kg	☼	02/10/16 09:30	02/11/16 05:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:21	1
Boron	0.93	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 02:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:21	1
Iron	<0.40		0.40	0.20	mg/L		02/10/16 08:40	02/11/16 02:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 02:21	1
Manganese	0.74		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:21	1
Nickel	0.023	J B	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 02:21	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 02:21	1
Zinc	0.18	J B	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 02:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.61		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 20:22	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 18:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 18:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 23:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0093	mg/Kg	☼	02/08/16 16:10	02/09/16 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			02/11/16 18:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Date Collected: 02/04/16 14:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
2-Butanone (MEK)	<0.0049		0.0049	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
trans-1,3-Dichloropropene	<0.0049 *		0.0049	0.0014	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	02/05/16 07:30	02/15/16 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122	02/05/16 07:30	02/15/16 19:35	1
Dibromofluoromethane	103		75 - 120	02/05/16 07:30	02/15/16 19:35	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/05/16 07:30	02/15/16 19:35	1
Toluene-d8 (Surr)	117		75 - 122	02/05/16 07:30	02/15/16 19:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Date Collected: 02/04/16 14:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.088	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Acenaphthylene	0.0085	J	0.039	0.0051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Acenaphthene	0.0087	J	0.039	0.0070	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Fluorene	0.010	J	0.039	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Phenanthrene	0.17		0.039	0.0054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Anthracene	0.036	J	0.039	0.0065	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Fluoranthene	0.46		0.039	0.0072	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Pyrene	0.51		0.039	0.0077	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Benzo[a]anthracene	0.22		0.039	0.0052	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Date Collected: 02/04/16 14:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.24		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Benzo[k]fluoranthene	0.36		0.039	0.011	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Benzo[a]pyrene	0.20		0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Indeno[1,2,3-cd]pyrene	0.096		0.039	0.010	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Dibenz(a,h)anthracene	0.026	J	0.039	0.0075	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Benzo[g,h,i]perylene	0.092		0.039	0.012	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/08/16 07:15	02/16/16 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	98		25 - 110				02/08/16 07:15	02/16/16 15:52	1
Phenol-d5	70		31 - 110				02/08/16 07:15	02/16/16 15:52	1
Nitrobenzene-d5	88		25 - 115				02/08/16 07:15	02/16/16 15:52	1
2-Fluorobiphenyl	87		25 - 119				02/08/16 07:15	02/16/16 15:52	1
2,4,6-Tribromophenol	52		35 - 137				02/08/16 07:15	02/16/16 15:52	1
Terphenyl-d14	141	X	36 - 134				02/08/16 07:15	02/16/16 15:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Arsenic	7.0		0.59	0.27	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Barium	59		0.59	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Beryllium	0.72		0.23	0.051	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Boron	12		2.9	0.41	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Cadmium	0.082	J B	0.12	0.034	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Calcium	25000		12	3.8	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Chromium	19	B	0.59	0.10	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Cobalt	14		0.29	0.066	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Copper	25		0.59	0.13	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Lead	58		0.29	0.15	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Magnesium	15000		5.9	2.4	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Manganese	350		0.59	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Nickel	32		0.59	0.16	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Potassium	2400		29	4.8	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Selenium	0.50	J	0.59	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Sodium	2400	B	59	7.7	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Thallium	0.51	J	0.59	0.29	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Vanadium	24		0.29	0.085	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1
Zinc	100		1.2	0.37	mg/Kg	☼	02/10/16 09:30	02/11/16 05:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:26	1
Boron	0.81	B	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Date Collected: 02/04/16 14:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Iron	<0.40		0.40	0.20	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Manganese	0.58		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Nickel	0.019	J B	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Silver	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:26	1
Zinc	0.20	J B	0.50	0.020	mg/L	-	02/10/16 08:40	02/11/16 02:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.97		0.025	0.010	mg/L	-	02/10/16 08:44	02/12/16 20:29	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/10/16 08:40	02/11/16 18:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/10/16 08:40	02/11/16 18:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/09/16 15:45	02/11/16 23:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.010	mg/Kg	☼	02/08/16 16:10	02/09/16 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU	-		02/11/16 18:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Date Collected: 02/04/16 14:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.013		0.013	0.0026	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Benzene	<0.0033		0.0033	0.00074	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Bromodichloromethane	<0.0033		0.0033	0.00056	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Bromoform	<0.0033		0.0033	0.00068	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Bromomethane	<0.0033		0.0033	0.0012	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
2-Butanone (MEK)	<0.0033		0.0033	0.0012	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Carbon disulfide	<0.0033		0.0033	0.0012	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Carbon tetrachloride	<0.0033		0.0033	0.00071	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Chlorobenzene	<0.0033		0.0033	0.00078	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Chloroethane	<0.0033		0.0033	0.0014	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Chloroform	<0.0033		0.0033	0.00065	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Chloromethane	<0.0033		0.0033	0.00080	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
cis-1,2-Dichloroethene	<0.0033		0.0033	0.00068	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
cis-1,3-Dichloropropene	<0.0033		0.0033	0.00076	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Dibromochloromethane	<0.0033		0.0033	0.00038	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,1-Dichloroethane	<0.0033		0.0033	0.00068	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,2-Dichloroethane	<0.0033		0.0033	0.00049	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,1-Dichloroethene	<0.0033		0.0033	0.0012	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,2-Dichloropropane	<0.0033		0.0033	0.00087	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,3-Dichloropropene, Total	<0.0033		0.0033	0.00094	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Ethylbenzene	<0.0033		0.0033	0.00082	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
2-Hexanone	<0.0033		0.0033	0.0010	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Methylene Chloride	<0.0033		0.0033	0.0025	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0033	0.00068	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Methyl tert-butyl ether	<0.0033	*	0.0033	0.00078	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Styrene	<0.0033		0.0033	0.00078	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,1,2,2-Tetrachloroethane	<0.0033		0.0033	0.00053	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Tetrachloroethene	<0.0033		0.0033	0.00069	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Toluene	<0.0033		0.0033	0.0012	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
trans-1,2-Dichloroethene	<0.0033		0.0033	0.00083	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
trans-1,3-Dichloropropene	<0.0033	*	0.0033	0.00094	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,1,1-Trichloroethane	<0.0033		0.0033	0.00077	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
1,1,2-Trichloroethane	<0.0033		0.0033	0.00064	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Trichloroethene	<0.0033		0.0033	0.00090	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Vinyl acetate	<0.0033		0.0033	0.00089	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Vinyl chloride	<0.0033		0.0033	0.00079	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1
Xylenes, Total	<0.0066		0.0066	0.0012	mg/Kg	☼	02/05/16 07:30	02/16/16 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122	02/05/16 07:30	02/16/16 08:27	1
Dibromofluoromethane	101		75 - 120	02/05/16 07:30	02/16/16 08:27	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	02/05/16 07:30	02/16/16 08:27	1
Toluene-d8 (Surr)	116		75 - 122	02/05/16 07:30	02/16/16 08:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Date Collected: 02/04/16 14:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,4-Dinitrophenol	<0.69		0.69	0.60	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Pyrene	<0.034		0.034	0.0068	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Date Collected: 02/04/16 14:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.034		0.034	0.0093	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0088	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	02/08/16 07:15	02/15/16 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	111	X	25 - 110	02/08/16 07:15	02/15/16 23:15	1
Phenol-d5	120	X	31 - 110	02/08/16 07:15	02/15/16 23:15	1
Nitrobenzene-d5	111		25 - 115	02/08/16 07:15	02/15/16 23:15	1
2-Fluorobiphenyl	102		25 - 119	02/08/16 07:15	02/15/16 23:15	1
2,4,6-Tribromophenol	93		35 - 137	02/08/16 07:15	02/15/16 23:15	1
Terphenyl-d14	176	X	36 - 134	02/08/16 07:15	02/15/16 23:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.90		0.90	0.19	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Arsenic	2.2		0.45	0.21	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Barium	8.3		0.45	0.082	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Beryllium	0.096	J	0.18	0.039	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Boron	4.0		2.2	0.31	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Cadmium	0.032	J B	0.090	0.026	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Calcium	120000		90	29	mg/Kg	☼	02/10/16 09:30	02/12/16 03:59	10
Chromium	5.2	B	0.45	0.077	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Cobalt	2.3		0.22	0.051	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Copper	7.3		0.45	0.097	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Iron	5500	B	9.0	3.5	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Lead	3.1		0.22	0.11	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Magnesium	45000		4.5	1.8	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Manganese	190		0.45	0.089	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Nickel	6.6		0.45	0.12	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Potassium	470		22	3.7	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Silver	<0.22		0.22	0.053	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Sodium	330	B	45	5.9	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Vanadium	7.8		0.22	0.066	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1
Zinc	20		0.90	0.28	mg/Kg	☼	02/10/16 09:30	02/11/16 05:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14	J	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 02:31	1
Boron	0.082	J B F1	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 02:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Date Collected: 02/04/16 14:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 94.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Iron	<0.40		0.40	0.20	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Manganese	1.1		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Nickel	0.019	J B	0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Silver	<0.025		0.025	0.010	mg/L	-	02/10/16 08:40	02/11/16 02:31	1
Zinc	0.072	J B	0.50	0.020	mg/L	-	02/10/16 08:40	02/11/16 02:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.027		0.025	0.010	mg/L	-	02/10/16 08:44	02/13/16 13:05	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/10/16 08:40	02/11/16 18:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/10/16 08:40	02/11/16 18:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/09/16 15:45	02/11/16 23:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0086	mg/Kg	☼	02/08/16 16:10	02/09/16 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU	-		02/11/16 18:44	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

GC/MS VOA

Prep Batch: 322315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	5035	
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	5035	
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	5035	
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	5035	
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	5035	
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	5035	
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	5035	
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	5035	
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	5035	
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	5035	
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	5035	
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	5035	
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	5035	
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	5035	
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	5035	
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	5035	
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	5035	
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	5035	
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	5035	

Analysis Batch: 322825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	8260B	322315
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	8260B	322315
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	8260B	322315
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	8260B	322315
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	8260B	322315
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	8260B	322315
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	8260B	322315
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	8260B	322315
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	8260B	322315
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	8260B	322315
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	8260B	322315
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	8260B	322315
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	8260B	322315
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	8260B	322315
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	8260B	322315
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	8260B	322315
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	8260B	322315
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	8260B	322315
LCS 500-322825/28	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-322825/29	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-322825/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 322897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	8260B	322315
LCS 500-322897/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-322897/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-322897/6	Method Blank	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

GC/MS Semi VOA

Prep Batch: 322136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	3541	
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	3541	
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	3541	
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	3541	
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	3541	
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	3541	
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	3541	
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	3541	
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	3541	
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	3541	
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	3541	
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	3541	
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	3541	
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	3541	
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	3541	
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	3541	
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	3541	
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	3541	
500-107244-16 - DL	2746-01-B23 (0-2)	Total/NA	Solid	3541	
500-107244-16 - DL2	2746-01-B23 (0-2)	Total/NA	Solid	3541	
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	3541	
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	3541	
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	3541	
LCS 500-322136/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322136/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 322830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322136/2-A	Lab Control Sample	Total/NA	Solid	8270D	322136
MB 500-322136/1-A	Method Blank	Total/NA	Solid	8270D	322136

Analysis Batch: 322880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	8270D	322136
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	8270D	322136
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	8270D	322136
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	8270D	322136
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	8270D	322136
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	8270D	322136
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	8270D	322136
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	8270D	322136
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	8270D	322136
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	8270D	322136
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	8270D	322136
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	8270D	322136
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	8270D	322136
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	8270D	322136
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	8270D	322136
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	8270D	322136

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

GC/MS Semi VOA (Continued)

Analysis Batch: 323000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	8270D	322136
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	8270D	322136
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	8270D	322136
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	8270D	322136
500-107244-16 - DL	2746-01-B23 (0-2)	Total/NA	Solid	8270D	322136
500-107244-16 - DL2	2746-01-B23 (0-2)	Total/NA	Solid	8270D	322136
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	8270D	322136

Metals

Leach Batch: 322144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	TCLP	Solid	1311	
500-107244-2	2746-01-B87 (7-14)	TCLP	Solid	1311	
500-107244-2 DU	2746-01-B87 (7-14)	TCLP	Solid	1311	
500-107244-2 MS	2746-01-B87 (7-14)	TCLP	Solid	1311	
500-107244-3	2746-01-B87 (14-20)	TCLP	Solid	1311	
500-107244-4	2746-01-B48 (0-7)	TCLP	Solid	1311	
500-107244-5	2746-01-B48 (7-13)	TCLP	Solid	1311	
500-107244-6	2746-01-B47 (0-7)	TCLP	Solid	1311	
500-107244-7	2746-01-B47 (7-13)	TCLP	Solid	1311	
500-107244-8	2746-01-B46 (0-5)	TCLP	Solid	1311	
500-107244-9	2746-01-B46 (5-10)	TCLP	Solid	1311	
500-107244-10	2746-01-B45 (0-7)	TCLP	Solid	1311	
500-107244-11	2746-01-B45 (7-14)	TCLP	Solid	1311	
500-107244-12	2746-01-B44 (0-7)	TCLP	Solid	1311	
500-107244-13	2746-01-B44 (7-14)	TCLP	Solid	1311	
500-107244-14	2746-01-B43 (0-7)	TCLP	Solid	1311	
500-107244-15	2746-01-B43 (7-14)	TCLP	Solid	1311	
500-107244-16	2746-01-B23 (0-2)	TCLP	Solid	1311	
500-107244-17	2746-01-B19 (0-2)	TCLP	Solid	1311	
500-107244-18	2746-01-B22 (0-2)	TCLP	Solid	1311	
500-107244-19	2746-61-B01 (0-5)	TCLP	Solid	1311	
500-107244-19 DU	2746-61-B01 (0-5)	TCLP	Solid	1311	
500-107244-19 MS	2746-61-B01 (0-5)	TCLP	Solid	1311	
LB 500-322144/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322144/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	SPLP East	Solid	1312	
500-107244-1 DU	2746-01-B87 (0-7)	SPLP East	Solid	1312	
500-107244-1 MS	2746-01-B87 (0-7)	SPLP East	Solid	1312	
500-107244-2	2746-01-B87 (7-14)	SPLP East	Solid	1312	
500-107244-3	2746-01-B87 (14-20)	SPLP East	Solid	1312	
500-107244-4	2746-01-B48 (0-7)	SPLP East	Solid	1312	
500-107244-5	2746-01-B48 (7-13)	SPLP East	Solid	1312	
500-107244-6	2746-01-B47 (0-7)	SPLP East	Solid	1312	
500-107244-7	2746-01-B47 (7-13)	SPLP East	Solid	1312	
500-107244-8	2746-01-B46 (0-5)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Leach Batch: 322147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-9	2746-01-B46 (5-10)	SPLP East	Solid	1312	
500-107244-10	2746-01-B45 (0-7)	SPLP East	Solid	1312	
500-107244-11	2746-01-B45 (7-14)	SPLP East	Solid	1312	
500-107244-12	2746-01-B44 (0-7)	SPLP East	Solid	1312	
500-107244-13	2746-01-B44 (7-14)	SPLP East	Solid	1312	
500-107244-14	2746-01-B43 (0-7)	SPLP East	Solid	1312	
500-107244-15	2746-01-B43 (7-14)	SPLP East	Solid	1312	
500-107244-16	2746-01-B23 (0-2)	SPLP East	Solid	1312	
500-107244-17	2746-01-B19 (0-2)	SPLP East	Solid	1312	
500-107244-18	2746-01-B22 (0-2)	SPLP East	Solid	1312	
500-107244-19	2746-61-B01 (0-5)	SPLP East	Solid	1312	
LB 500-322147/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 322151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	7471B	
500-107244-1 DU	2746-01-B87 (0-7)	Total/NA	Solid	7471B	
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	7471B	
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	7471B	
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	7471B	
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	7471B	
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	7471B	
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	7471B	
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	7471B	
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	7471B	
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	7471B	
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	7471B	
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	7471B	
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	7471B	
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	7471B	
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	7471B	
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	7471B	
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	7471B	
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	7471B	
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	7471B	
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	7471B	
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	7471B	
LCS 500-322151/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-322151/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 322257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	TCLP	Solid	7470A	322144
500-107244-2	2746-01-B87 (7-14)	TCLP	Solid	7470A	322144
500-107244-2 DU	2746-01-B87 (7-14)	TCLP	Solid	7470A	322144
500-107244-2 MS	2746-01-B87 (7-14)	TCLP	Solid	7470A	322144
500-107244-3	2746-01-B87 (14-20)	TCLP	Solid	7470A	322144
500-107244-4	2746-01-B48 (0-7)	TCLP	Solid	7470A	322144
500-107244-5	2746-01-B48 (7-13)	TCLP	Solid	7470A	322144
500-107244-6	2746-01-B47 (0-7)	TCLP	Solid	7470A	322144
500-107244-7	2746-01-B47 (7-13)	TCLP	Solid	7470A	322144

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Prep Batch: 322257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-8	2746-01-B46 (0-5)	TCLP	Solid	7470A	322144
500-107244-9	2746-01-B46 (5-10)	TCLP	Solid	7470A	322144
500-107244-10	2746-01-B45 (0-7)	TCLP	Solid	7470A	322144
500-107244-11	2746-01-B45 (7-14)	TCLP	Solid	7470A	322144
500-107244-12	2746-01-B44 (0-7)	TCLP	Solid	7470A	322144
500-107244-13	2746-01-B44 (7-14)	TCLP	Solid	7470A	322144
500-107244-14	2746-01-B43 (0-7)	TCLP	Solid	7470A	322144
500-107244-15	2746-01-B43 (7-14)	TCLP	Solid	7470A	322144
500-107244-16	2746-01-B23 (0-2)	TCLP	Solid	7470A	322144
500-107244-17	2746-01-B19 (0-2)	TCLP	Solid	7470A	322144
500-107244-18	2746-01-B22 (0-2)	TCLP	Solid	7470A	322144
500-107244-19	2746-61-B01 (0-5)	TCLP	Solid	7470A	322144
LB 500-322144/1-B	Method Blank	TCLP	Solid	7470A	322144
LCS 500-322257/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322257/12-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 322285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	TCLP	Solid	3010A	322144
500-107244-2	2746-01-B87 (7-14)	TCLP	Solid	3010A	322144
500-107244-3	2746-01-B87 (14-20)	TCLP	Solid	3010A	322144
500-107244-4	2746-01-B48 (0-7)	TCLP	Solid	3010A	322144
500-107244-5	2746-01-B48 (7-13)	TCLP	Solid	3010A	322144
500-107244-6	2746-01-B47 (0-7)	TCLP	Solid	3010A	322144
500-107244-7	2746-01-B47 (7-13)	TCLP	Solid	3010A	322144
500-107244-8	2746-01-B46 (0-5)	TCLP	Solid	3010A	322144
500-107244-9	2746-01-B46 (5-10)	TCLP	Solid	3010A	322144
500-107244-10	2746-01-B45 (0-7)	TCLP	Solid	3010A	322144
500-107244-11	2746-01-B45 (7-14)	TCLP	Solid	3010A	322144
500-107244-12	2746-01-B44 (0-7)	TCLP	Solid	3010A	322144
500-107244-13	2746-01-B44 (7-14)	TCLP	Solid	3010A	322144
500-107244-14	2746-01-B43 (0-7)	TCLP	Solid	3010A	322144
500-107244-15	2746-01-B43 (7-14)	TCLP	Solid	3010A	322144
500-107244-16	2746-01-B23 (0-2)	TCLP	Solid	3010A	322144
500-107244-17	2746-01-B19 (0-2)	TCLP	Solid	3010A	322144
500-107244-18	2746-01-B22 (0-2)	TCLP	Solid	3010A	322144
500-107244-19	2746-61-B01 (0-5)	TCLP	Solid	3010A	322144
500-107244-19 DU	2746-61-B01 (0-5)	TCLP	Solid	3010A	322144
500-107244-19 MS	2746-61-B01 (0-5)	TCLP	Solid	3010A	322144
LB 500-322144/1-C	Method Blank	TCLP	Solid	3010A	322144
LCS 500-322285/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	SPLP East	Solid	3010A	322147
500-107244-1 DU	2746-01-B87 (0-7)	SPLP East	Solid	3010A	322147
500-107244-1 MS	2746-01-B87 (0-7)	SPLP East	Solid	3010A	322147
500-107244-2	2746-01-B87 (7-14)	SPLP East	Solid	3010A	322147
500-107244-3	2746-01-B87 (14-20)	SPLP East	Solid	3010A	322147
500-107244-4	2746-01-B48 (0-7)	SPLP East	Solid	3010A	322147
500-107244-5	2746-01-B48 (7-13)	SPLP East	Solid	3010A	322147

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Prep Batch: 322286 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-6	2746-01-B47 (0-7)	SPLP East	Solid	3010A	322147
500-107244-7	2746-01-B47 (7-13)	SPLP East	Solid	3010A	322147
500-107244-8	2746-01-B46 (0-5)	SPLP East	Solid	3010A	322147
500-107244-9	2746-01-B46 (5-10)	SPLP East	Solid	3010A	322147
500-107244-10	2746-01-B45 (0-7)	SPLP East	Solid	3010A	322147
500-107244-11	2746-01-B45 (7-14)	SPLP East	Solid	3010A	322147
500-107244-12	2746-01-B44 (0-7)	SPLP East	Solid	3010A	322147
500-107244-13	2746-01-B44 (7-14)	SPLP East	Solid	3010A	322147
500-107244-14	2746-01-B43 (0-7)	SPLP East	Solid	3010A	322147
500-107244-15	2746-01-B43 (7-14)	SPLP East	Solid	3010A	322147
500-107244-16	2746-01-B23 (0-2)	SPLP East	Solid	3010A	322147
500-107244-17	2746-01-B19 (0-2)	SPLP East	Solid	3010A	322147
500-107244-18	2746-01-B22 (0-2)	SPLP East	Solid	3010A	322147
500-107244-19	2746-61-B01 (0-5)	SPLP East	Solid	3010A	322147
LB 500-322147/1-B	Method Blank	SPLP East	Solid	3010A	322147
LCS 500-322286/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	3050B	
500-107244-1 DU	2746-01-B87 (0-7)	Total/NA	Solid	3050B	
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	3050B	
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	3050B	
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	3050B	
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	3050B	
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	3050B	
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	3050B	
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	3050B	
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	3050B	
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	3050B	
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	3050B	
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	3050B	
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	3050B	
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	3050B	
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	3050B	
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	3050B	
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	3050B	
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	3050B	
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	3050B	
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	3050B	
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	3050B	
LCS 500-322299/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322299/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 322411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	TCPLP	Solid	6010B	322285
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-1 DU	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Analysis Batch: 322411 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-2	2746-01-B87 (7-14)	TCLP	Solid	6010B	322285
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	6010B	322299
500-107244-3	2746-01-B87 (14-20)	TCLP	Solid	6010B	322285
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	6010B	322299
500-107244-4	2746-01-B48 (0-7)	TCLP	Solid	6010B	322285
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	6010B	322299
500-107244-5	2746-01-B48 (7-13)	TCLP	Solid	6010B	322285
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	6010B	322299
500-107244-6	2746-01-B47 (0-7)	TCLP	Solid	6010B	322285
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	6010B	322299
500-107244-7	2746-01-B47 (7-13)	TCLP	Solid	6010B	322285
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	6010B	322299
500-107244-8	2746-01-B46 (0-5)	TCLP	Solid	6010B	322285
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	6010B	322299
500-107244-9	2746-01-B46 (5-10)	TCLP	Solid	6010B	322285
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	6010B	322299
500-107244-10	2746-01-B45 (0-7)	TCLP	Solid	6010B	322285
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	6010B	322299
500-107244-11	2746-01-B45 (7-14)	TCLP	Solid	6010B	322285
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	6010B	322299
500-107244-12	2746-01-B44 (0-7)	TCLP	Solid	6010B	322285
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	6010B	322299
500-107244-13	2746-01-B44 (7-14)	TCLP	Solid	6010B	322285
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	6010B	322299
500-107244-14	2746-01-B43 (0-7)	TCLP	Solid	6010B	322285
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	6010B	322299
500-107244-15	2746-01-B43 (7-14)	TCLP	Solid	6010B	322285
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	6010B	322299
500-107244-16	2746-01-B23 (0-2)	TCLP	Solid	6010B	322285
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	6010B	322299
500-107244-17	2746-01-B19 (0-2)	TCLP	Solid	6010B	322285
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	6010B	322299
500-107244-18	2746-01-B22 (0-2)	TCLP	Solid	6010B	322285
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	6010B	322299
500-107244-19	2746-61-B01 (0-5)	TCLP	Solid	6010B	322285
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	6010B	322299
500-107244-19 DU	2746-61-B01 (0-5)	TCLP	Solid	6010B	322285
500-107244-19 MS	2746-61-B01 (0-5)	TCLP	Solid	6010B	322285
LB 500-322144/1-C	Method Blank	TCLP	Solid	6010B	322285
LCS 500-322285/2-A	Lab Control Sample	Total/NA	Solid	6010B	322285
LCS 500-322299/2-A	Lab Control Sample	Total/NA	Solid	6010B	322299
MB 500-322299/1-A	Method Blank	Total/NA	Solid	6010B	322299

Analysis Batch: 322479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	7471B	322151
500-107244-1 DU	2746-01-B87 (0-7)	Total/NA	Solid	7471B	322151
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	7471B	322151
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	7471B	322151
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	7471B	322151
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	7471B	322151

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Analysis Batch: 322479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	7471B	322151
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	7471B	322151
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	7471B	322151
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	7471B	322151
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	7471B	322151
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	7471B	322151
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	7471B	322151
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	7471B	322151
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	7471B	322151
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	7471B	322151
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	7471B	322151
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	7471B	322151
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	7471B	322151
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	7471B	322151
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	7471B	322151
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	7471B	322151
LCS 500-322151/13-A	Lab Control Sample	Total/NA	Solid	7471B	322151
MB 500-322151/12-A	Method Blank	Total/NA	Solid	7471B	322151

Analysis Batch: 322582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-1 DU	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-1 MS	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-1 MSD	2746-01-B87 (0-7)	Total/NA	Solid	6010B	322299
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	6010B	322299
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	6010B	322299
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	6010B	322299
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	6010B	322299
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	6010B	322299
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	6010B	322299
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	6010B	322299
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	6010B	322299
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	6010B	322299
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	6010B	322299
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	6010B	322299
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	6010B	322299
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	6010B	322299
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	6010B	322299
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	6010B	322299
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	6010B	322299
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	6010B	322299

Analysis Batch: 322594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	TCLP	Solid	6020A	322285
500-107244-2	2746-01-B87 (7-14)	TCLP	Solid	6020A	322285
500-107244-3	2746-01-B87 (14-20)	TCLP	Solid	6020A	322285
500-107244-4	2746-01-B48 (0-7)	TCLP	Solid	6020A	322285
500-107244-5	2746-01-B48 (7-13)	TCLP	Solid	6020A	322285
500-107244-6	2746-01-B47 (0-7)	TCLP	Solid	6020A	322285

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Analysis Batch: 322594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-7	2746-01-B47 (7-13)	TCLP	Solid	6020A	322285
500-107244-8	2746-01-B46 (0-5)	TCLP	Solid	6020A	322285
500-107244-9	2746-01-B46 (5-10)	TCLP	Solid	6020A	322285
500-107244-10	2746-01-B45 (0-7)	TCLP	Solid	6020A	322285
500-107244-11	2746-01-B45 (7-14)	TCLP	Solid	6020A	322285
500-107244-12	2746-01-B44 (0-7)	TCLP	Solid	6020A	322285
500-107244-13	2746-01-B44 (7-14)	TCLP	Solid	6020A	322285
500-107244-14	2746-01-B43 (0-7)	TCLP	Solid	6020A	322285
500-107244-15	2746-01-B43 (7-14)	TCLP	Solid	6020A	322285
500-107244-16	2746-01-B23 (0-2)	TCLP	Solid	6020A	322285
500-107244-17	2746-01-B19 (0-2)	TCLP	Solid	6020A	322285
500-107244-18	2746-01-B22 (0-2)	TCLP	Solid	6020A	322285
500-107244-19	2746-61-B01 (0-5)	TCLP	Solid	6020A	322285
500-107244-19 DU	2746-61-B01 (0-5)	TCLP	Solid	6020A	322285
500-107244-19 MS	2746-61-B01 (0-5)	TCLP	Solid	6020A	322285
LB 500-322144/1-C	Method Blank	TCLP	Solid	6020A	322285
LCS 500-322285/2-A	Lab Control Sample	Total/NA	Solid	6020A	322285

Analysis Batch: 322627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	TCLP	Solid	7470A	322257
500-107244-2	2746-01-B87 (7-14)	TCLP	Solid	7470A	322257
500-107244-2 DU	2746-01-B87 (7-14)	TCLP	Solid	7470A	322257
500-107244-2 MS	2746-01-B87 (7-14)	TCLP	Solid	7470A	322257
500-107244-3	2746-01-B87 (14-20)	TCLP	Solid	7470A	322257
500-107244-4	2746-01-B48 (0-7)	TCLP	Solid	7470A	322257
500-107244-5	2746-01-B48 (7-13)	TCLP	Solid	7470A	322257
500-107244-6	2746-01-B47 (0-7)	TCLP	Solid	7470A	322257
500-107244-7	2746-01-B47 (7-13)	TCLP	Solid	7470A	322257
500-107244-8	2746-01-B46 (0-5)	TCLP	Solid	7470A	322257
500-107244-9	2746-01-B46 (5-10)	TCLP	Solid	7470A	322257
500-107244-10	2746-01-B45 (0-7)	TCLP	Solid	7470A	322257
500-107244-11	2746-01-B45 (7-14)	TCLP	Solid	7470A	322257
500-107244-12	2746-01-B44 (0-7)	TCLP	Solid	7470A	322257
500-107244-13	2746-01-B44 (7-14)	TCLP	Solid	7470A	322257
500-107244-14	2746-01-B43 (0-7)	TCLP	Solid	7470A	322257
500-107244-15	2746-01-B43 (7-14)	TCLP	Solid	7470A	322257
500-107244-16	2746-01-B23 (0-2)	TCLP	Solid	7470A	322257
500-107244-17	2746-01-B19 (0-2)	TCLP	Solid	7470A	322257
500-107244-18	2746-01-B22 (0-2)	TCLP	Solid	7470A	322257
500-107244-19	2746-61-B01 (0-5)	TCLP	Solid	7470A	322257
LB 500-322144/1-B	Method Blank	TCLP	Solid	7470A	322257
LCS 500-322257/13-A	Lab Control Sample	Total/NA	Solid	7470A	322257
MB 500-322257/12-A	Method Blank	Total/NA	Solid	7470A	322257

Analysis Batch: 322709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	SPLP East	Solid	6010B	322286
500-107244-1 DU	2746-01-B87 (0-7)	SPLP East	Solid	6010B	322286
500-107244-1 MS	2746-01-B87 (0-7)	SPLP East	Solid	6010B	322286
500-107244-2	2746-01-B87 (7-14)	SPLP East	Solid	6010B	322286

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Metals (Continued)

Analysis Batch: 322709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-3	2746-01-B87 (14-20)	SPLP East	Solid	6010B	322286
500-107244-4	2746-01-B48 (0-7)	SPLP East	Solid	6010B	322286
500-107244-5	2746-01-B48 (7-13)	SPLP East	Solid	6010B	322286
500-107244-6	2746-01-B47 (0-7)	SPLP East	Solid	6010B	322286
500-107244-7	2746-01-B47 (7-13)	SPLP East	Solid	6010B	322286
500-107244-8	2746-01-B46 (0-5)	SPLP East	Solid	6010B	322286
500-107244-9	2746-01-B46 (5-10)	SPLP East	Solid	6010B	322286
500-107244-10	2746-01-B45 (0-7)	SPLP East	Solid	6010B	322286
500-107244-11	2746-01-B45 (7-14)	SPLP East	Solid	6010B	322286
500-107244-12	2746-01-B44 (0-7)	SPLP East	Solid	6010B	322286
500-107244-13	2746-01-B44 (7-14)	SPLP East	Solid	6010B	322286
500-107244-14	2746-01-B43 (0-7)	SPLP East	Solid	6010B	322286
500-107244-15	2746-01-B43 (7-14)	SPLP East	Solid	6010B	322286
500-107244-16	2746-01-B23 (0-2)	SPLP East	Solid	6010B	322286
500-107244-17	2746-01-B19 (0-2)	SPLP East	Solid	6010B	322286
500-107244-18	2746-01-B22 (0-2)	SPLP East	Solid	6010B	322286
LB 500-322147/1-B	Method Blank	SPLP East	Solid	6010B	322286
LCS 500-322286/2-A	Lab Control Sample	Total/NA	Solid	6010B	322286

Analysis Batch: 322809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-19	2746-61-B01 (0-5)	SPLP East	Solid	6010B	322286

General Chemistry

Analysis Batch: 322176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	Moisture	
500-107244-1 DU	2746-01-B87 (0-7)	Total/NA	Solid	Moisture	
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	Moisture	
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	Moisture	
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	Moisture	
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	Moisture	
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	Moisture	
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	Moisture	
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	Moisture	
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	Moisture	
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	Moisture	
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	Moisture	
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	Moisture	
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	Moisture	
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	Moisture	
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	Moisture	
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	Moisture	
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	Moisture	
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	Moisture	
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	Moisture	

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

General Chemistry (Continued)

Analysis Batch: 322568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107244-1	2746-01-B87 (0-7)	Total/NA	Solid	9045D	
500-107244-2	2746-01-B87 (7-14)	Total/NA	Solid	9045D	
500-107244-3	2746-01-B87 (14-20)	Total/NA	Solid	9045D	
500-107244-4	2746-01-B48 (0-7)	Total/NA	Solid	9045D	
500-107244-5	2746-01-B48 (7-13)	Total/NA	Solid	9045D	
500-107244-6	2746-01-B47 (0-7)	Total/NA	Solid	9045D	
500-107244-6 DU	2746-01-B47 (0-7)	Total/NA	Solid	9045D	
500-107244-7	2746-01-B47 (7-13)	Total/NA	Solid	9045D	
500-107244-8	2746-01-B46 (0-5)	Total/NA	Solid	9045D	
500-107244-9	2746-01-B46 (5-10)	Total/NA	Solid	9045D	
500-107244-10	2746-01-B45 (0-7)	Total/NA	Solid	9045D	
500-107244-11	2746-01-B45 (7-14)	Total/NA	Solid	9045D	
500-107244-12	2746-01-B44 (0-7)	Total/NA	Solid	9045D	
500-107244-13	2746-01-B44 (7-14)	Total/NA	Solid	9045D	
500-107244-14	2746-01-B43 (0-7)	Total/NA	Solid	9045D	
500-107244-15	2746-01-B43 (7-14)	Total/NA	Solid	9045D	
500-107244-15 DU	2746-01-B43 (7-14)	Total/NA	Solid	9045D	
500-107244-16	2746-01-B23 (0-2)	Total/NA	Solid	9045D	
500-107244-17	2746-01-B19 (0-2)	Total/NA	Solid	9045D	
500-107244-18	2746-01-B22 (0-2)	Total/NA	Solid	9045D	
500-107244-19	2746-61-B01 (0-5)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-122)	(75-120)	(70-134)	(75-122)
500-107244-1	2746-01-B87 (0-7)	107	102	109	119
500-107244-2	2746-01-B87 (7-14)	108	106	110	122
500-107244-3	2746-01-B87 (14-20)	104	102	105	120
500-107244-4	2746-01-B48 (0-7)	103	105	107	121
500-107244-5	2746-01-B48 (7-13)	107	104	106	117
500-107244-6	2746-01-B47 (0-7)	102	103	106	119
500-107244-7	2746-01-B47 (7-13)	104	102	101	120
500-107244-8	2746-01-B46 (0-5)	105	102	106	124 X
500-107244-9	2746-01-B46 (5-10)	108	106	109	120
500-107244-10	2746-01-B45 (0-7)	104	106	107	121
500-107244-11	2746-01-B45 (7-14)	106	104	108	119
500-107244-12	2746-01-B44 (0-7)	107	103	105	120
500-107244-13	2746-01-B44 (7-14)	103	101	102	121
500-107244-14	2746-01-B43 (0-7)	104	106	105	122
500-107244-15	2746-01-B43 (7-14)	105	105	104	119
500-107244-16	2746-01-B23 (0-2)	105	105	107	119
500-107244-17	2746-01-B19 (0-2)	106	105	109	115
500-107244-18	2746-01-B22 (0-2)	107	103	105	117
500-107244-19	2746-61-B01 (0-5)	106	101	101	116
LCS 500-322825/28	Lab Control Sample	114	100	102	118
LCS 500-322897/4	Lab Control Sample	111	102	98	119
LCSD 500-322825/29	Lab Control Sample Dup	114	103	98	118
LCSD 500-322897/5	Lab Control Sample Dup	115	105	102	120
MB 500-322825/7	Method Blank	110	100	100	115
MB 500-322897/6	Method Blank	107	100	98	120

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- 12DCE = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
		(25-110)	(31-110)	(25-115)	(25-119)	(35-137)	(36-134)
500-107244-1	2746-01-B87 (0-7)	109	114 X	103	95	79	111
500-107244-1 MS	2746-01-B87 (0-7)	96	99	90	87	97	176 X
500-107244-1 MSD	2746-01-B87 (0-7)	98	100	91	83	86	159 X
500-107244-2	2746-01-B87 (7-14)	107	111 X	100	92	65	110
500-107244-3	2746-01-B87 (14-20)	100	96	92	86	52	106
500-107244-4	2746-01-B48 (0-7)	99	103	90	86	78	111
500-107244-5	2746-01-B48 (7-13)	109	112 X	96	100	81	136 X
500-107244-6	2746-01-B47 (0-7)	112 X	109	107	97	80	121
500-107244-7	2746-01-B47 (7-13)	100	100	89	88	68	116
500-107244-8	2746-01-B46 (0-5)	106	101	94	88	67	115
500-107244-9	2746-01-B46 (5-10)	108	114 X	103	96	85	126

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107244-10	2746-01-B45 (0-7)	110	111 X	101	95	91	130
500-107244-11	2746-01-B45 (7-14)	101	103	94	87	82	112
500-107244-12	2746-01-B44 (0-7)	66	54	63	62	49	94
500-107244-13	2746-01-B44 (7-14)	91	93	85	86	52	132
500-107244-14	2746-01-B43 (0-7)	95	80	86	86	47	130
500-107244-15	2746-01-B43 (7-14)	96	92	87	84	70	149 X
500-107244-16	2746-01-B23 (0-2)	95	100	90	89	90	184 X
500-107244-16 - DL	2746-01-B23 (0-2)	94	118 X	83	105	59	187 X
500-107244-16 - DL2	2746-01-B23 (0-2)	0 D	0 D	0 D	0 D	0 D	0 D
500-107244-17	2746-01-B19 (0-2)	103	105	95	89	83	159 X
500-107244-18	2746-01-B22 (0-2)	98	70	88	87	52	141 X
500-107244-19	2746-61-B01 (0-5)	111 X	120 X	111	102	93	176 X
LCS 500-322136/2-A	Lab Control Sample	75	80	84	83	81	94
MB 500-322136/1-A	Method Blank	67	76	76	77	59	90

Surrogate Legend

2FP = 2-Fluorophenol
 PHL = Phenol-d5
 NBZ = Nitrobenzene-d5
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322825/7

Matrix: Solid

Analysis Batch: 322825

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/15/16 10:49	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 10:49	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/15/16 10:49	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 10:49	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 10:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 10:49	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 10:49	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 10:49	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/15/16 10:49	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/15/16 10:49	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 10:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 10:49	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/15/16 10:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 10:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/15/16 10:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 10:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 10:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 10:49	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/15/16 10:49	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/15/16 10:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 10:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/15/16 10:49	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 10:49	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/15/16 10:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 10:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 10:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/15/16 10:49	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 10:49	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 10:49	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 10:49	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/15/16 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 122		02/15/16 10:49	1
Dibromofluoromethane	100		75 - 120		02/15/16 10:49	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		02/15/16 10:49	1
Toluene-d8 (Surr)	115		75 - 122		02/15/16 10:49	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322825/28

Matrix: Solid

Analysis Batch: 322825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0387		mg/Kg		77	50 - 133
Benzene	0.0500	0.0508		mg/Kg		102	70 - 120
Bromodichloromethane	0.0500	0.0458		mg/Kg		92	69 - 120
Bromoform	0.0500	0.0425		mg/Kg		85	51 - 127
Bromomethane	0.0500	0.0370		mg/Kg		74	69 - 120
2-Butanone (MEK)	0.0500	0.0481		mg/Kg		96	50 - 148
Carbon disulfide	0.0500	0.0468		mg/Kg		94	58 - 120
Carbon tetrachloride	0.0500	0.0475		mg/Kg		95	51 - 124
Chlorobenzene	0.0500	0.0521		mg/Kg		104	70 - 120
Chloroethane	0.0500	0.0343		mg/Kg		69	49 - 125
Chloroform	0.0500	0.0516		mg/Kg		103	70 - 120
Chloromethane	0.0500	0.0381		mg/Kg		76	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
Dibromochloromethane	0.0500	0.0466		mg/Kg		93	69 - 126
1,1-Dichloroethane	0.0500	0.0459		mg/Kg		92	70 - 120
1,2-Dichloroethane	0.0500	0.0446		mg/Kg		89	70 - 128
1,1-Dichloroethene	0.0500	0.0526		mg/Kg		105	67 - 120
1,2-Dichloropropane	0.0500	0.0448		mg/Kg		90	70 - 120
Ethylbenzene	0.0500	0.0531		mg/Kg		106	70 - 120
2-Hexanone	0.0500	0.0508		mg/Kg		102	50 - 150
Methylene Chloride	0.0500	0.0507		mg/Kg		101	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0517		mg/Kg		103	50 - 150
Methyl tert-butyl ether	0.0500	0.0536		mg/Kg		107	70 - 120
Styrene	0.0500	0.0499		mg/Kg		100	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0519		mg/Kg		104	70 - 133
Tetrachloroethene	0.0500	0.0529		mg/Kg		106	70 - 120
Toluene	0.0500	0.0538		mg/Kg		108	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 120
1,1,1-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 120
1,1,2-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120
Trichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
Vinyl acetate	0.0500	0.0633		mg/Kg		127	60 - 150
Vinyl chloride	0.0500	0.0401		mg/Kg		80	69 - 120
Xylenes, Total	0.100	0.109		mg/Kg		109	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 122
Dibromofluoromethane	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		70 - 134
Toluene-d8 (Surr)	118		75 - 122

Lab Sample ID: LCSD 500-322825/29

Matrix: Solid

Analysis Batch: 322825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0416		mg/Kg		83	50 - 133	7	30
Benzene	0.0500	0.0547		mg/Kg		109	70 - 120	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322825/29
Matrix: Solid
Analysis Batch: 322825

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0507		mg/Kg		101	69 - 120	10	30
Bromoform	0.0500	0.0462		mg/Kg		92	51 - 127	8	30
Bromomethane	0.0500	0.0380		mg/Kg		76	69 - 120	3	30
2-Butanone (MEK)	0.0500	0.0495		mg/Kg		99	50 - 148	3	30
Carbon disulfide	0.0500	0.0497		mg/Kg		99	58 - 120	6	30
Carbon tetrachloride	0.0500	0.0523		mg/Kg		105	51 - 124	10	30
Chlorobenzene	0.0500	0.0574		mg/Kg		115	70 - 120	10	30
Chloroethane	0.0500	0.0372		mg/Kg		74	49 - 125	8	30
Chloroform	0.0500	0.0547		mg/Kg		109	70 - 120	6	30
Chloromethane	0.0500	0.0404		mg/Kg		81	63 - 126	6	30
cis-1,2-Dichloroethene	0.0500	0.0551		mg/Kg		110	70 - 120	10	30
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	69 - 126	8	30
1,1-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 120	8	30
1,2-Dichloroethane	0.0500	0.0502		mg/Kg		100	70 - 128	12	30
1,1-Dichloroethene	0.0500	0.0563		mg/Kg		113	67 - 120	7	30
1,2-Dichloropropane	0.0500	0.0484		mg/Kg		97	70 - 120	8	30
Ethylbenzene	0.0500	0.0567		mg/Kg		113	70 - 120	6	30
2-Hexanone	0.0500	0.0547		mg/Kg		109	50 - 150	8	30
Methylene Chloride	0.0500	0.0555		mg/Kg		111	70 - 120	9	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0550		mg/Kg		110	50 - 150	6	30
Methyl tert-butyl ether	0.0500	0.0579		mg/Kg		116	70 - 120	8	30
Styrene	0.0500	0.0537		mg/Kg		107	70 - 120	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0564		mg/Kg		113	70 - 133	8	30
Tetrachloroethene	0.0500	0.0565		mg/Kg		113	70 - 120	7	30
Toluene	0.0500	0.0581		mg/Kg		116	70 - 120	8	30
trans-1,2-Dichloroethene	0.0500	0.0524		mg/Kg		105	70 - 120	8	30
1,1,1-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120	8	30
1,1,2-Trichloroethane	0.0500	0.0584		mg/Kg		117	70 - 120	8	30
Trichloroethene	0.0500	0.0545		mg/Kg		109	70 - 120	9	30
Vinyl acetate	0.0500	0.0657		mg/Kg		131	60 - 150	4	30
Vinyl chloride	0.0500	0.0432		mg/Kg		86	69 - 120	8	30
Xylenes, Total	0.100	0.119		mg/Kg		119	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	114		70 - 122
Dibromofluoromethane	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	118		75 - 122

Lab Sample ID: MB 500-322897/6
Matrix: Solid
Analysis Batch: 322897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/15/16 23:17	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 23:17	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/15/16 23:17	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:17	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322897/6
Matrix: Solid
Analysis Batch: 322897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:17	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:17	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:17	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 23:17	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/15/16 23:17	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/15/16 23:17	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:17	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 23:17	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/15/16 23:17	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:17	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/15/16 23:17	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:17	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 23:17	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 23:17	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/15/16 23:17	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/15/16 23:17	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:17	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/15/16 23:17	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:17	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/15/16 23:17	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 23:17	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 23:17	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/15/16 23:17	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 23:17	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 23:17	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:17	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/15/16 23:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		02/15/16 23:17	1
Dibromofluoromethane	100		75 - 120		02/15/16 23:17	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		02/15/16 23:17	1
Toluene-d8 (Surr)	120		75 - 122		02/15/16 23:17	1

Lab Sample ID: LCS 500-322897/4
Matrix: Solid
Analysis Batch: 322897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0387		mg/Kg		77	50 - 133
Benzene	0.0500	0.0524		mg/Kg		105	70 - 120
Bromodichloromethane	0.0500	0.0479		mg/Kg		96	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322897/4

Matrix: Solid

Analysis Batch: 322897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0421		mg/Kg		84	51 - 127
Bromomethane	0.0500	0.0407		mg/Kg		81	69 - 120
2-Butanone (MEK)	0.0500	0.0513		mg/Kg		103	50 - 148
Carbon disulfide	0.0500	0.0447		mg/Kg		89	58 - 120
Carbon tetrachloride	0.0500	0.0458		mg/Kg		92	51 - 124
Chlorobenzene	0.0500	0.0523		mg/Kg		105	70 - 120
Chloroethane	0.0500	0.0405		mg/Kg		81	49 - 125
Chloroform	0.0500	0.0521		mg/Kg		104	70 - 120
Chloromethane	0.0500	0.0425		mg/Kg		85	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0521		mg/Kg		104	70 - 120
Dibromochloromethane	0.0500	0.0486		mg/Kg		97	69 - 126
1,1-Dichloroethane	0.0500	0.0469		mg/Kg		94	70 - 120
1,2-Dichloroethane	0.0500	0.0494		mg/Kg		99	70 - 128
1,1-Dichloroethene	0.0500	0.0498		mg/Kg		100	67 - 120
1,2-Dichloropropane	0.0500	0.0458		mg/Kg		92	70 - 120
Ethylbenzene	0.0500	0.0521		mg/Kg		104	70 - 120
2-Hexanone	0.0500	0.0486		mg/Kg		97	50 - 150
Methylene Chloride	0.0500	0.0531		mg/Kg		106	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0486		mg/Kg		97	50 - 150
Methyl tert-butyl ether	0.0500	0.0549		mg/Kg		110	70 - 120
Styrene	0.0500	0.0500		mg/Kg		100	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0506		mg/Kg		101	70 - 133
Tetrachloroethene	0.0500	0.0508		mg/Kg		102	70 - 120
Toluene	0.0500	0.0542		mg/Kg		108	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120
1,1,1-Trichloroethane	0.0500	0.0486		mg/Kg		97	70 - 120
1,1,2-Trichloroethane	0.0500	0.0535		mg/Kg		107	70 - 120
Trichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
Vinyl acetate	0.0500	0.0523		mg/Kg		105	60 - 150
Vinyl chloride	0.0500	0.0433		mg/Kg		87	69 - 120
Xylenes, Total	0.100	0.110		mg/Kg		110	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 134
Toluene-d8 (Surr)	119		75 - 122

Lab Sample ID: LCSD 500-322897/5

Matrix: Solid

Analysis Batch: 322897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0451		mg/Kg		90	50 - 133	15	30
Benzene	0.0500	0.0529		mg/Kg		106	70 - 120	1	30
Bromodichloromethane	0.0500	0.0495		mg/Kg		99	69 - 120	3	30
Bromoform	0.0500	0.0446		mg/Kg		89	51 - 127	6	30
Bromomethane	0.0500	0.0383		mg/Kg		77	69 - 120	6	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322897/5

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 322897

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0478		mg/Kg		96	50 - 148	7	30
Carbon disulfide	0.0500	0.0463		mg/Kg		93	58 - 120	3	30
Carbon tetrachloride	0.0500	0.0470		mg/Kg		94	51 - 124	3	30
Chlorobenzene	0.0500	0.0546		mg/Kg		109	70 - 120	4	30
Chloroethane	0.0500	0.0386		mg/Kg		77	49 - 125	5	30
Chloroform	0.0500	0.0539		mg/Kg		108	70 - 120	3	30
Chloromethane	0.0500	0.0424		mg/Kg		85	63 - 126	0	30
cis-1,2-Dichloroethene	0.0500	0.0530		mg/Kg		106	70 - 120	2	30
Dibromochloromethane	0.0500	0.0512		mg/Kg		102	69 - 126	5	30
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 120	2	30
1,2-Dichloroethane	0.0500	0.0526		mg/Kg		105	70 - 128	6	30
1,1-Dichloroethene	0.0500	0.0504		mg/Kg		101	67 - 120	1	30
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	70 - 120	5	30
Ethylbenzene	0.0500	0.0554		mg/Kg		111	70 - 120	6	30
2-Hexanone	0.0500	0.0559		mg/Kg		112	50 - 150	14	30
Methylene Chloride	0.0500	0.0555		mg/Kg		111	70 - 120	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0577		mg/Kg		115	50 - 150	17	30
Methyl tert-butyl ether	0.0500	0.0603 *		mg/Kg		121	70 - 120	9	30
Styrene	0.0500	0.0535		mg/Kg		107	70 - 120	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0564		mg/Kg		113	70 - 133	11	30
Tetrachloroethene	0.0500	0.0532		mg/Kg		106	70 - 120	5	30
Toluene	0.0500	0.0563		mg/Kg		113	70 - 120	4	30
trans-1,2-Dichloroethene	0.0500	0.0493		mg/Kg		99	70 - 120	3	30
1,1,1-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0601		mg/Kg		120	70 - 120	12	30
Trichloroethene	0.0500	0.0522		mg/Kg		104	70 - 120	5	30
Vinyl acetate	0.0500	0.0538		mg/Kg		108	60 - 150	3	30
Vinyl chloride	0.0500	0.0435		mg/Kg		87	69 - 120	0	30
Xylenes, Total	0.100	0.114		mg/Kg		114	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	115		70 - 122
Dibromofluoromethane	105		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		70 - 134
Toluene-d8 (Surr)	120		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322136/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 322830

Prep Batch: 322136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/08/16 07:15	02/15/16 14:38	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322136/1-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322136

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/08/16 07:15	02/15/16 14:38	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322136/1-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/08/16 07:15	02/15/16 14:38	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/08/16 07:15	02/15/16 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	02/08/16 07:15	02/15/16 14:38	1
Phenol-d5	76		31 - 110	02/08/16 07:15	02/15/16 14:38	1
Nitrobenzene-d5	76		25 - 115	02/08/16 07:15	02/15/16 14:38	1
2-Fluorobiphenyl	77		25 - 119	02/08/16 07:15	02/15/16 14:38	1
2,4,6-Tribromophenol	59		35 - 137	02/08/16 07:15	02/15/16 14:38	1
Terphenyl-d14	90		36 - 134	02/08/16 07:15	02/15/16 14:38	1

Lab Sample ID: LCS 500-322136/2-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.09		mg/Kg		81	41 - 110
Bis(2-chloroethyl)ether	1.33	1.12		mg/Kg		84	32 - 110
1,3-Dichlorobenzene	1.33	1.10		mg/Kg		82	44 - 110
1,4-Dichlorobenzene	1.33	1.11		mg/Kg		83	45 - 110
1,2-Dichlorobenzene	1.33	1.12		mg/Kg		84	48 - 110
2-Methylphenol	1.33	1.23		mg/Kg		92	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.928		mg/Kg		70	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.13		mg/Kg		85	24 - 123
Hexachloroethane	1.33	1.10		mg/Kg		83	44 - 110
2-Chlorophenol	1.33	1.13		mg/Kg		85	47 - 114
Nitrobenzene	1.33	1.15		mg/Kg		86	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.17		mg/Kg		88	42 - 110
1,2,4-Trichlorobenzene	1.33	1.20		mg/Kg		90	49 - 110
Isophorone	1.33	1.19		mg/Kg		90	35 - 110
2,4-Dimethylphenol	1.33	1.05		mg/Kg		79	49 - 110
Hexachlorobutadiene	1.33	1.23		mg/Kg		92	47 - 114
Naphthalene	1.33	1.16		mg/Kg		87	48 - 110
2,4-Dichlorophenol	1.33	1.20		mg/Kg		90	53 - 113
4-Chloroaniline	1.33	0.551	J	mg/Kg		41	16 - 118
2,4,6-Trichlorophenol	1.33	1.24		mg/Kg		93	44 - 118
2,4,5-Trichlorophenol	1.33	0.833		mg/Kg		62	41 - 120
Hexachlorocyclopentadiene	1.33	<0.67		mg/Kg		14	10 - 110
2-Methylnaphthalene	1.33	1.22		mg/Kg		92	48 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322136/2-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Nitroaniline	1.33	1.06		mg/Kg		79	42 - 122
2-Chloronaphthalene	1.33	1.08		mg/Kg		81	52 - 114
4-Chloro-3-methylphenol	1.33	1.19		mg/Kg		89	52 - 111
2,6-Dinitrotoluene	1.33	0.999		mg/Kg		75	54 - 117
2-Nitrophenol	1.33	1.18		mg/Kg		88	48 - 113
3-Nitroaniline	1.33	0.982		mg/Kg		74	36 - 131
Dimethyl phthalate	1.33	1.10		mg/Kg		83	56 - 113
2,4-Dinitrophenol	2.67	0.629	J	mg/Kg		24	10 - 110
Acenaphthylene	1.33	1.10		mg/Kg		83	49 - 110
2,4-Dinitrotoluene	1.33	1.14		mg/Kg		85	53 - 122
Acenaphthene	1.33	1.04		mg/Kg		78	46 - 110
Dibenzofuran	1.33	1.11		mg/Kg		83	51 - 119
4-Nitrophenol	2.67	1.98		mg/Kg		74	10 - 157
Fluorene	1.33	1.09		mg/Kg		81	47 - 121
4-Nitroaniline	1.33	1.44		mg/Kg		108	28 - 157
4-Bromophenyl phenyl ether	1.33	1.29		mg/Kg		97	55 - 113
Hexachlorobenzene	1.33	1.25		mg/Kg		94	54 - 114
Diethyl phthalate	1.33	1.14		mg/Kg		85	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		83	53 - 117
Pentachlorophenol	2.67	1.74		mg/Kg		65	10 - 124
N-Nitrosodiphenylamine	1.33	1.27		mg/Kg		95	52 - 111
4,6-Dinitro-2-methylphenol	2.67	1.32		mg/Kg		50	10 - 110
Phenanthrene	1.33	1.42		mg/Kg		106	48 - 121
Anthracene	1.33	1.04		mg/Kg		78	48 - 118
Carbazole	1.33	1.34		mg/Kg		101	26 - 188
Di-n-butyl phthalate	1.33	1.26		mg/Kg		94	50 - 128
Fluoranthene	1.33	1.25		mg/Kg		94	48 - 128
Pyrene	1.33	1.14		mg/Kg		86	46 - 114
Butyl benzyl phthalate	1.33	1.19		mg/Kg		89	49 - 121
Benzo[a]anthracene	1.33	1.17		mg/Kg		88	49 - 121
Chrysene	1.33	1.20		mg/Kg		90	45 - 118
3,3'-Dichlorobenzidine	1.33	0.855		mg/Kg		64	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.22		mg/Kg		91	47 - 133
Di-n-octyl phthalate	1.33	1.24		mg/Kg		93	46 - 138
Benzo[b]fluoranthene	1.33	1.21		mg/Kg		91	54 - 122
Benzo[k]fluoranthene	1.33	1.21		mg/Kg		90	44 - 137
Benzo[a]pyrene	1.33	1.24		mg/Kg		93	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.40		mg/Kg		105	49 - 132
Dibenz(a,h)anthracene	1.33	1.32		mg/Kg		99	48 - 134
Benzo[g,h,i]perylene	1.33	1.32		mg/Kg		99	52 - 125
3 & 4 Methylphenol	1.33	1.23		mg/Kg		92	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	75		25 - 110
Phenol-d5	80		31 - 110
Nitrobenzene-d5	84		25 - 115
2-Fluorobiphenyl	83		25 - 119
2,4,6-Tribromophenol	81		35 - 137

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322136/2-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	94		36 - 134

Lab Sample ID: 500-107244-1 MS
Matrix: Solid
Analysis Batch: 322880

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.20	F1	1.61	1.86	F1	mg/Kg	☼	115	41 - 110
Bis(2-chloroethyl)ether	<0.20		1.61	1.60		mg/Kg	☼	99	32 - 110
1,3-Dichlorobenzene	<0.20		1.61	1.50		mg/Kg	☼	93	44 - 110
1,4-Dichlorobenzene	<0.20		1.61	1.53		mg/Kg	☼	95	45 - 110
1,2-Dichlorobenzene	<0.20		1.61	1.55		mg/Kg	☼	96	48 - 110
2-Methylphenol	<0.20		1.61	1.55		mg/Kg	☼	96	44 - 110
2,2'-oxybis[1-chloropropane]	<0.20		1.61	1.43		mg/Kg	☼	89	30 - 115
N-Nitrosodi-n-propylamine	<0.079		1.61	1.70		mg/Kg	☼	106	24 - 123
Hexachloroethane	<0.20		1.61	1.20		mg/Kg	☼	74	44 - 110
2-Chlorophenol	<0.20		1.61	1.60		mg/Kg	☼	100	47 - 114
Nitrobenzene	<0.039		1.61	1.54		mg/Kg	☼	96	35 - 113
Bis(2-chloroethoxy)methane	<0.20		1.61	1.67		mg/Kg	☼	104	42 - 110
1,2,4-Trichlorobenzene	<0.20		1.61	1.57		mg/Kg	☼	97	49 - 110
Isophorone	<0.20		1.61	1.70		mg/Kg	☼	105	35 - 110
2,4-Dimethylphenol	<0.39		1.61	1.67		mg/Kg	☼	103	49 - 110
Hexachlorobutadiene	<0.20		1.61	1.69		mg/Kg	☼	105	47 - 114
Naphthalene	<0.039		1.61	1.56		mg/Kg	☼	97	48 - 110
2,4-Dichlorophenol	<0.39		1.61	1.75		mg/Kg	☼	108	53 - 113
4-Chloroaniline	<0.79	F1	1.61	1.82		mg/Kg	☼	113	16 - 118
2,4,6-Trichlorophenol	<0.39		1.61	1.54		mg/Kg	☼	96	44 - 118
2,4,5-Trichlorophenol	<0.39		1.61	1.49		mg/Kg	☼	92	41 - 120
Hexachlorocyclopentadiene	<0.79	F1	1.61	<0.81	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	0.038	J	1.61	1.67		mg/Kg	☼	101	48 - 110
2-Nitroaniline	<0.20		1.61	1.66		mg/Kg	☼	103	42 - 122
2-Chloronaphthalene	<0.20		1.61	1.47		mg/Kg	☼	91	52 - 114
4-Chloro-3-methylphenol	<0.39		1.61	1.69		mg/Kg	☼	105	52 - 111
2,6-Dinitrotoluene	<0.20		1.61	1.59		mg/Kg	☼	98	54 - 117
2-Nitrophenol	<0.39		1.61	1.60		mg/Kg	☼	99	48 - 113
3-Nitroaniline	<0.39		1.61	2.06		mg/Kg	☼	128	36 - 131
Dimethyl phthalate	<0.20		1.61	1.67		mg/Kg	☼	103	56 - 113
2,4-Dinitrophenol	<0.79	F1	3.22	<0.81	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.039		1.61	1.56		mg/Kg	☼	96	49 - 110
2,4-Dinitrotoluene	<0.20		1.61	1.54		mg/Kg	☼	95	53 - 122
Acenaphthene	<0.039		1.61	1.41		mg/Kg	☼	88	46 - 110
Dibenzofuran	<0.20		1.61	1.57		mg/Kg	☼	97	51 - 119
4-Nitrophenol	<0.79		3.22	3.08		mg/Kg	☼	96	10 - 157
Fluorene	<0.039		1.61	1.60		mg/Kg	☼	99	47 - 121
4-Nitroaniline	<0.39		1.61	1.92		mg/Kg	☼	119	28 - 157
4-Bromophenyl phenyl ether	<0.20	F1	1.61	1.94	F1	mg/Kg	☼	120	55 - 113
Hexachlorobenzene	<0.079		1.61	1.84		mg/Kg	☼	114	54 - 114
Diethyl phthalate	<0.20		1.61	1.74		mg/Kg	☼	108	50 - 128

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107244-1 MS

Matrix: Solid

Analysis Batch: 322880

Client Sample ID: 2746-01-B87 (0-7)

Prep Type: Total/NA

Prep Batch: 322136

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	Limits
	Result			Result					
4-Chlorophenyl phenyl ether	<0.20		1.61	1.67		mg/Kg	☼	104	53 - 117
Pentachlorophenol	<0.79	F1	3.22	0.976		mg/Kg	☼	30	10 - 124
N-Nitrosodiphenylamine	<0.20	F1	1.61	2.03	F1	mg/Kg	☼	126	52 - 111
4,6-Dinitro-2-methylphenol	<0.79		3.22	0.444	J	mg/Kg	☼	14	10 - 110
Phenanthrene	0.083		1.61	1.95		mg/Kg	☼	116	48 - 121
Anthracene	<0.039		1.61	1.75		mg/Kg	☼	108	48 - 118
Carbazole	<0.20		1.61	2.20		mg/Kg	☼	136	26 - 188
Di-n-butyl phthalate	<0.20		1.61	1.99		mg/Kg	☼	123	50 - 128
Fluoranthene	<0.039		1.61	1.76		mg/Kg	☼	109	48 - 128
Pyrene	0.020	J F1	1.61	2.64	F1	mg/Kg	☼	163	46 - 114
Butyl benzyl phthalate	<0.20	F1	1.61	2.89	E F1	mg/Kg	☼	179	49 - 121
Benzo[a]anthracene	0.0094	J	1.61	1.76		mg/Kg	☼	109	49 - 121
Chrysene	0.020	J	1.61	1.84		mg/Kg	☼	113	45 - 118
3,3'-Dichlorobenzidine	<0.20	F2	1.61	1.26		mg/Kg	☼	78	26 - 128
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.61	2.92	E F1	mg/Kg	☼	181	47 - 133
Di-n-octyl phthalate	<0.20		1.61	1.47		mg/Kg	☼	91	46 - 138
Benzo[b]fluoranthene	<0.039	F1	1.61	2.27	F1	mg/Kg	☼	141	54 - 122
Benzo[k]fluoranthene	<0.039	F1	1.61	2.27	F1	mg/Kg	☼	141	44 - 137
Benzo[a]pyrene	<0.039		1.61	1.92		mg/Kg	☼	119	53 - 122
Indeno[1,2,3-cd]pyrene	<0.039		1.61	1.37		mg/Kg	☼	85	49 - 132
Dibenz(a,h)anthracene	<0.039		1.61	1.27		mg/Kg	☼	78	48 - 134
Benzo[g,h,i]perylene	0.021	J	1.61	1.11		mg/Kg	☼	68	52 - 125
3 & 4 Methylphenol	<0.20		1.61	1.70		mg/Kg	☼	106	37 - 122

Surrogate	MS	MS Qualifier	Limits
	%Recovery		
2-Fluorophenol	96		25 - 110
Phenol-d5	99		31 - 110
Nitrobenzene-d5	90		25 - 115
2-Fluorobiphenyl	87		25 - 119
2,4,6-Tribromophenol	97		35 - 137
Terphenyl-d14	176	X	36 - 134

Lab Sample ID: 500-107244-1 MSD

Matrix: Solid

Analysis Batch: 322880

Client Sample ID: 2746-01-B87 (0-7)

Prep Type: Total/NA

Prep Batch: 322136

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Result			Result							
Phenol	<0.20	F1	1.62	1.79	F1	mg/Kg	☼	111	41 - 110	4	30
Bis(2-chloroethyl)ether	<0.20		1.62	1.52		mg/Kg	☼	94	32 - 110	5	30
1,3-Dichlorobenzene	<0.20		1.62	1.51		mg/Kg	☼	93	44 - 110	1	30
1,4-Dichlorobenzene	<0.20		1.62	1.54		mg/Kg	☼	95	45 - 110	1	30
1,2-Dichlorobenzene	<0.20		1.62	1.57		mg/Kg	☼	97	48 - 110	1	30
2-Methylphenol	<0.20		1.62	1.78		mg/Kg	☼	110	44 - 110	14	30
2,2'-oxybis[1-chloropropane]	<0.20		1.62	1.42		mg/Kg	☼	88	30 - 115	1	30
N-Nitrosodi-n-propylamine	<0.079		1.62	1.67		mg/Kg	☼	103	24 - 123	2	30
Hexachloroethane	<0.20		1.62	1.24		mg/Kg	☼	77	44 - 110	4	30
2-Chlorophenol	<0.20		1.62	1.57		mg/Kg	☼	97	47 - 114	2	30
Nitrobenzene	<0.039		1.62	1.53		mg/Kg	☼	95	35 - 113	1	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107244-1 MSD

Matrix: Solid

Analysis Batch: 322880

Client Sample ID: 2746-01-B87 (0-7)

Prep Type: Total/NA

Prep Batch: 322136

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bis(2-chloroethoxy)methane	<0.20		1.62	1.64		mg/Kg	☼	101	42 - 110	2	30
1,2,4-Trichlorobenzene	<0.20		1.62	1.57		mg/Kg	☼	97	49 - 110	0	30
Isophorone	<0.20		1.62	1.65		mg/Kg	☼	102	35 - 110	3	30
2,4-Dimethylphenol	<0.39		1.62	1.56		mg/Kg	☼	96	49 - 110	7	30
Hexachlorobutadiene	<0.20		1.62	1.70		mg/Kg	☼	105	47 - 114	1	30
Naphthalene	<0.039		1.62	1.55		mg/Kg	☼	96	48 - 110	1	30
2,4-Dichlorophenol	<0.39		1.62	1.60		mg/Kg	☼	99	53 - 113	9	30
4-Chloroaniline	<0.79	F1	1.62	2.01	F1	mg/Kg	☼	124	16 - 118	10	30
2,4,6-Trichlorophenol	<0.39		1.62	1.37		mg/Kg	☼	85	44 - 118	12	30
2,4,5-Trichlorophenol	<0.39		1.62	1.30		mg/Kg	☼	80	41 - 120	14	30
Hexachlorocyclopentadiene	<0.79	F1	1.62	<0.81	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	0.038	J	1.62	1.58		mg/Kg	☼	96	48 - 110	5	30
2-Nitroaniline	<0.20		1.62	1.46		mg/Kg	☼	90	42 - 122	13	30
2-Chloronaphthalene	<0.20		1.62	1.36		mg/Kg	☼	84	52 - 114	8	30
4-Chloro-3-methylphenol	<0.39		1.62	1.57		mg/Kg	☼	97	52 - 111	8	30
2,6-Dinitrotoluene	<0.20		1.62	1.41		mg/Kg	☼	87	54 - 117	11	30
2-Nitrophenol	<0.39		1.62	1.58		mg/Kg	☼	97	48 - 113	1	30
3-Nitroaniline	<0.39		1.62	1.65		mg/Kg	☼	102	36 - 131	22	30
Dimethyl phthalate	<0.20		1.62	1.48		mg/Kg	☼	91	56 - 113	12	30
2,4-Dinitrophenol	<0.79	F1	3.24	<0.81	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.039		1.62	1.41		mg/Kg	☼	87	49 - 110	10	30
2,4-Dinitrotoluene	<0.20		1.62	1.41		mg/Kg	☼	87	53 - 122	9	30
Acenaphthene	<0.039		1.62	1.28		mg/Kg	☼	79	46 - 110	10	30
Dibenzofuran	<0.20		1.62	1.40		mg/Kg	☼	86	51 - 119	11	30
4-Nitrophenol	<0.79		3.24	2.59		mg/Kg	☼	80	10 - 157	17	30
Fluorene	<0.039		1.62	1.44		mg/Kg	☼	89	47 - 121	11	30
4-Nitroaniline	<0.39		1.62	1.71		mg/Kg	☼	106	28 - 157	12	30
4-Bromophenyl phenyl ether	<0.20	F1	1.62	1.68		mg/Kg	☼	104	55 - 113	14	30
Hexachlorobenzene	<0.079		1.62	1.63		mg/Kg	☼	100	54 - 114	13	30
Diethyl phthalate	<0.20		1.62	1.57		mg/Kg	☼	97	50 - 128	11	30
4-Chlorophenyl phenyl ether	<0.20		1.62	1.48		mg/Kg	☼	91	53 - 117	12	30
Pentachlorophenol	<0.79	F1	3.24	<0.81	F1	mg/Kg	☼	0	10 - 124	NC	30
N-Nitrosodiphenylamine	<0.20	F1	1.62	1.74		mg/Kg	☼	108	52 - 111	15	30
4,6-Dinitro-2-methylphenol	<0.79		3.24	0.404	J	mg/Kg	☼	12	10 - 110	10	30
Phenanthrene	0.083		1.62	1.67		mg/Kg	☼	98	48 - 121	15	30
Anthracene	<0.039		1.62	1.54		mg/Kg	☼	95	48 - 118	13	30
Carbazole	<0.20		1.62	1.95		mg/Kg	☼	120	26 - 188	12	30
Di-n-butyl phthalate	<0.20		1.62	1.76		mg/Kg	☼	108	50 - 128	12	30
Fluoranthene	<0.039		1.62	1.53		mg/Kg	☼	95	48 - 128	14	30
Pyrene	0.020	J F1	1.62	2.35	F1	mg/Kg	☼	144	46 - 114	12	30
Butyl benzyl phthalate	<0.20	F1	1.62	2.56	F1	mg/Kg	☼	158	49 - 121	12	30
Benzo[a]anthracene	0.0094	J	1.62	1.55		mg/Kg	☼	95	49 - 121	13	30
Chrysene	0.020	J	1.62	1.62		mg/Kg	☼	99	45 - 118	13	30
3,3'-Dichlorobenzidine	<0.20	F2	1.62	0.647	F2	mg/Kg	☼	40	26 - 128	64	30
Bis(2-ethylhexyl) phthalate	<0.20	F1	1.62	2.59	F1	mg/Kg	☼	160	47 - 133	12	30
Di-n-octyl phthalate	<0.20		1.62	1.28		mg/Kg	☼	79	46 - 138	14	30
Benzo[b]fluoranthene	<0.039	F1	1.62	2.05	F1	mg/Kg	☼	127	54 - 122	10	30
Benzo[k]fluoranthene	<0.039	F1	1.62	2.00		mg/Kg	☼	124	44 - 137	13	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107244-1 MSD
Matrix: Solid
Analysis Batch: 322880

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[a]pyrene	<0.039		1.62	1.71		mg/Kg	☼	106	53 - 122	12	30
Indeno[1,2,3-cd]pyrene	<0.039		1.62	1.19		mg/Kg	☼	73	49 - 132	14	30
Dibenz(a,h)anthracene	<0.039		1.62	1.13		mg/Kg	☼	70	48 - 134	11	30
Benzo[g,h,i]perylene	0.021	J	1.62	1.01		mg/Kg	☼	61	52 - 125	10	30
3 & 4 Methylphenol	<0.20		1.62	1.69		mg/Kg	☼	104	37 - 122	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	98		25 - 110
Phenol-d5	100		31 - 110
Nitrobenzene-d5	91		25 - 115
2-Fluorobiphenyl	83		25 - 119
2,4,6-Tribromophenol	86		35 - 137
Terphenyl-d14	159	X	36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-322285/2-A
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.507		mg/L		101	80 - 120
Beryllium	0.0500	0.0485		mg/L		97	80 - 120
Boron	1.00	0.920		mg/L		92	80 - 120
Cadmium	0.0500	0.0473		mg/L		95	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Lead	0.100	0.0986		mg/L		99	80 - 120
Manganese	0.500	0.500		mg/L		100	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120
Selenium	0.100	0.0892		mg/L		89	80 - 120
Silver	0.0500	0.0482		mg/L		96	80 - 120
Zinc	0.500	0.494	J	mg/L		99	80 - 120

Lab Sample ID: LCS 500-322286/2-A
Matrix: Solid
Analysis Batch: 322709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.108		mg/L		108	80 - 120
Manganese	0.500	0.541		mg/L		108	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-322299/1-A
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Barium	<1.0		1.0	0.18	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Boron	<5.0		5.0	0.70	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Cadmium	0.0721	J	0.20	0.058	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Calcium	<20		20	6.4	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Chromium	1.07		1.0	0.17	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Copper	<1.0		1.0	0.22	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Iron	15.3	J	20	7.7	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Lead	<0.50		0.50	0.25	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Magnesium	<10		10	4.1	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Potassium	<50		50	8.2	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Silver	<0.50		0.50	0.12	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Sodium	29.0	J	100	13	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/10/16 09:30	02/11/16 03:02	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/10/16 09:30	02/11/16 03:02	1

Lab Sample ID: LCS 500-322299/2-A
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.4		mg/Kg		91	80 - 120
Arsenic	10.0	8.94		mg/Kg		89	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Beryllium	5.00	4.79		mg/Kg		96	80 - 120
Boron	100	86.0		mg/Kg		86	80 - 120
Cadmium	5.00	4.64		mg/Kg		93	80 - 120
Calcium	1000	979		mg/Kg		98	80 - 120
Chromium	20.0	20.9		mg/Kg		104	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	25.0	24.4		mg/Kg		98	80 - 120
Iron	100	108		mg/Kg		108	80 - 120
Lead	10.0	9.18		mg/Kg		92	80 - 120
Magnesium	1000	960		mg/Kg		96	80 - 120
Manganese	50.0	48.8		mg/Kg		98	80 - 120
Nickel	50.0	48.9		mg/Kg		98	80 - 120
Potassium	1000	975		mg/Kg		98	80 - 120
Selenium	10.0	8.51		mg/Kg		85	80 - 120
Silver	5.00	4.66		mg/Kg		93	80 - 120
Sodium	1000	970		mg/Kg		97	80 - 120
Thallium	10.0	9.34		mg/Kg		93	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322299/2-A
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322299
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Vanadium	50.0	49.5		mg/Kg		99	80 - 120
Zinc	50.0	47.2		mg/Kg		94	80 - 120

Lab Sample ID: 500-107244-1 MS
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.0	F1 F2	22.3	2.96	F1	mg/Kg	☼	13	75 - 125
Arsenic	5.9		4.45	9.84		mg/Kg	☼	87	75 - 125
Barium	49		89.1	117		mg/Kg	☼	77	75 - 125
Beryllium	0.64		2.23	2.39		mg/Kg	☼	78	75 - 125
Boron	14	F1	44.5	44.7	F1	mg/Kg	☼	68	75 - 125
Cadmium	<0.10		2.23	1.78		mg/Kg	☼	80	75 - 125
Chromium	18	B	8.91	25.9		mg/Kg	☼	87	75 - 125
Cobalt	12		22.3	36.5		mg/Kg	☼	108	75 - 125
Copper	22		11.1	32.6		mg/Kg	☼	98	75 - 125
Iron	19000	B	44.5	18200	4	mg/Kg	☼	-1053	75 - 125
Lead	12		4.45	17.1		mg/Kg	☼	108	75 - 125
Magnesium	27000		445	25200	4	mg/Kg	☼	-372	75 - 125
Manganese	330		22.3	365	4	mg/Kg	☼	175	75 - 125
Nickel	32		22.3	58.5		mg/Kg	☼	119	75 - 125
Potassium	2900		445	4030	4	mg/Kg	☼	257	75 - 125
Selenium	<0.50	F1	4.45	3.00	F1	mg/Kg	☼	67	75 - 125
Silver	<0.25		2.23	1.83		mg/Kg	☼	82	75 - 125
Sodium	290	B	445	668		mg/Kg	☼	85	75 - 125
Thallium	<0.50		4.45	4.01		mg/Kg	☼	90	75 - 125
Vanadium	20		22.3	38.4		mg/Kg	☼	85	75 - 125
Zinc	51	F1	22.3	82.8	F1	mg/Kg	☼	144	75 - 125

Lab Sample ID: 500-107244-1 MS
Matrix: Solid
Analysis Batch: 322582

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	72000		445	77900	4	mg/Kg	☼	1388	75 - 125

Lab Sample ID: 500-107244-1 MSD
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<1.0	F1 F2	24.7	3.81	F1 F2	mg/Kg	☼	15	75 - 125	25	20
Arsenic	5.9		4.94	10.5		mg/Kg	☼	91	75 - 125	6	20
Barium	49		98.8	126		mg/Kg	☼	78	75 - 125	7	20
Beryllium	0.64		2.47	2.65		mg/Kg	☼	81	75 - 125	10	20
Boron	14	F1	49.4	50.9	F1	mg/Kg	☼	74	75 - 125	13	20
Cadmium	<0.10		2.47	1.96		mg/Kg	☼	79	75 - 125	10	20
Chromium	18	B	9.88	27.9		mg/Kg	☼	99	75 - 125	7	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107244-1 MSD
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Cobalt	12		24.7	36.8		mg/Kg	☼	99	75 - 125	1	20
Copper	22		12.3	33.4		mg/Kg	☼	94	75 - 125	2	20
Iron	19000	B	49.4	19100	4	mg/Kg	☼	751	75 - 125	5	20
Lead	12		4.94	17.1		mg/Kg	☼	98	75 - 125	0	20
Magnesium	27000		494	27700	4	mg/Kg	☼	183	75 - 125	10	20
Manganese	330		24.7	327	4	mg/Kg	☼	2	75 - 125	11	20
Nickel	32		24.7	56.1		mg/Kg	☼	97	75 - 125	4	20
Potassium	2900		494	4240	4	mg/Kg	☼	274	75 - 125	5	20
Selenium	<0.50	F1	4.94	3.50	F1	mg/Kg	☼	71	75 - 125	16	20
Silver	<0.25		2.47	2.11		mg/Kg	☼	85	75 - 125	14	20
Sodium	290	B	494	705		mg/Kg	☼	84	75 - 125	5	20
Thallium	<0.50		4.94	3.90		mg/Kg	☼	79	75 - 125	3	20
Vanadium	20		24.7	43.0		mg/Kg	☼	95	75 - 125	11	20
Zinc	51	F1	24.7	78.6		mg/Kg	☼	113	75 - 125	5	20

Lab Sample ID: 500-107244-1 MSD
Matrix: Solid
Analysis Batch: 322582

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Calcium	72000		494	81200	4	mg/Kg	☼	1913	75 - 125	4	20

Lab Sample ID: 500-107244-1 DU
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<1.0	F1 F2	<1.1		mg/Kg	☼	NC	20
Arsenic	5.9		5.34		mg/Kg	☼	11	20
Barium	49		51.7		mg/Kg	☼	6	20
Beryllium	0.64		0.615		mg/Kg	☼	5	20
Boron	14	F1	13.5		mg/Kg	☼	6	20
Cadmium	<0.10		0.101	J	mg/Kg	☼	NC	20
Chromium	18	B	17.7		mg/Kg	☼	3	20
Cobalt	12		12.8		mg/Kg	☼	3	20
Copper	22		23.5		mg/Kg	☼	8	20
Iron	19000	B	18000		mg/Kg	☼	4	20
Lead	12		12.9		mg/Kg	☼	5	20
Magnesium	27000		25900		mg/Kg	☼	3	20
Manganese	330		341		mg/Kg	☼	4	20
Nickel	32		34.0		mg/Kg	☼	6	20
Potassium	2900		2820		mg/Kg	☼	2	20
Selenium	<0.50	F1	<0.53		mg/Kg	☼	NC	20
Silver	<0.25		<0.27		mg/Kg	☼	NC	20
Sodium	290	B	309		mg/Kg	☼	6	20
Thallium	<0.50		0.282	J	mg/Kg	☼	NC	20
Vanadium	20		19.1		mg/Kg	☼	3	20
Zinc	51	F1	76.1	F3	mg/Kg	☼	40	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107244-1 DU
Matrix: Solid
Analysis Batch: 322582

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322299

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	72000		77200		mg/Kg	☼	7	20

Lab Sample ID: LB 500-322144/1-C
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322285

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/10/16 08:40	02/11/16 00:30	1
Boron	0.286	J	0.50	0.050	mg/L		02/10/16 08:40	02/11/16 00:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/10/16 08:40	02/11/16 00:30	1
Chromium	0.0123	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:30	1
Cobalt	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:30	1
Iron	0.333	J	0.40	0.20	mg/L		02/10/16 08:40	02/11/16 00:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:40	02/11/16 00:30	1
Manganese	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:30	1
Nickel	0.0102	J	0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/10/16 08:40	02/11/16 00:30	1
Silver	<0.025		0.025	0.010	mg/L		02/10/16 08:40	02/11/16 00:30	1
Zinc	0.0899	J	0.50	0.020	mg/L		02/10/16 08:40	02/11/16 00:30	1

Lab Sample ID: 500-107244-19 MS
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-61-B01 (0-5)
Prep Type: TCLP
Prep Batch: 322285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.14	J	0.500	0.671		mg/L		107	50 - 150
Beryllium	<0.0040		0.0500	0.0507		mg/L		101	50 - 150
Boron	0.082	J B F1	1.00	1.71	F1	mg/L		163	50 - 150
Cadmium	<0.0050		0.0500	0.0535		mg/L		107	50 - 150
Chromium	<0.025		0.200	0.195		mg/L		97	50 - 150
Cobalt	<0.025		0.500	0.556		mg/L		111	50 - 150
Iron	<0.40		1.00	1.18		mg/L		118	50 - 150
Lead	<0.0075		0.100	0.105		mg/L		105	50 - 150
Manganese	1.1		0.500	1.57		mg/L		85	50 - 150
Nickel	0.019	J B	0.500	0.553		mg/L		107	50 - 150
Selenium	<0.050		0.100	0.130		mg/L		130	50 - 150
Silver	<0.025		0.0500	0.0554		mg/L		111	50 - 150
Zinc	0.072	J B	0.500	0.714		mg/L		129	50 - 150

Lab Sample ID: 500-107244-19 DU
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-61-B01 (0-5)
Prep Type: TCLP
Prep Batch: 322285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.14	J	0.134	J	mg/L		1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.082	J B F1	0.0843	J	mg/L		3	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107244-19 DU
Matrix: Solid
Analysis Batch: 322411

Client Sample ID: 2746-61-B01 (0-5)
Prep Type: TCLP
Prep Batch: 322285

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	1.1		1.14		mg/L		0.6	20
Nickel	0.019	J B	0.0164	J	mg/L		12	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.072	J B	0.0754	J	mg/L		5	20

Lab Sample ID: LB 500-322147/1-B
Matrix: Solid
Analysis Batch: 322709

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322286

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/10/16 08:44	02/12/16 17:29	1
Manganese	<0.025		0.025	0.010	mg/L		02/10/16 08:44	02/12/16 17:29	1

Lab Sample ID: 500-107244-1 MS
Matrix: Solid
Analysis Batch: 322709

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: SPLP East
Prep Batch: 322286

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Manganese	0.038		0.500	0.614		mg/L		115	50 - 150

Lab Sample ID: 500-107244-1 DU
Matrix: Solid
Analysis Batch: 322709

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: SPLP East
Prep Batch: 322286

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Manganese	0.038		0.0392		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-322285/2-A
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322285

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.438		mg/L		88	80 - 120
Thallium	0.100	0.0942		mg/L		94	80 - 120

Lab Sample ID: LB 500-322144/1-C
Matrix: Solid
Analysis Batch: 322594

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322285

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/10/16 08:40	02/11/16 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/10/16 08:40	02/11/16 17:14	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107244-19 MS

Matrix: Solid
Analysis Batch: 322594

Client Sample ID: 2746-61-B01 (0-5)

Prep Type: TCLP
Prep Batch: 322285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.408		mg/L		82	50 - 150
Thallium	<0.0020		0.100	0.102		mg/L		102	50 - 150

Lab Sample ID: 500-107244-19 DU

Matrix: Solid
Analysis Batch: 322594

Client Sample ID: 2746-61-B01 (0-5)

Prep Type: TCLP
Prep Batch: 322285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-322257/12-A

Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 322257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:21	1

Lab Sample ID: LCS 500-322257/13-A

Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 322257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00200		mg/L		100	80 - 120

Lab Sample ID: LB 500-322144/1-B

Matrix: Solid
Analysis Batch: 322627

Client Sample ID: Method Blank

Prep Type: TCLP
Prep Batch: 322257

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/09/16 15:45	02/11/16 22:20	1

Lab Sample ID: 500-107244-2 MS

Matrix: Solid
Analysis Batch: 322627

Client Sample ID: 2746-01-B87 (7-14)

Prep Type: TCLP
Prep Batch: 322257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000629		mg/L		63	50 - 150

Lab Sample ID: 500-107244-2 DU

Matrix: Solid
Analysis Batch: 322627

Client Sample ID: 2746-01-B87 (7-14)

Prep Type: TCLP
Prep Batch: 322257

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-322151/12-A
Matrix: Solid
Analysis Batch: 322479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/08/16 16:10	02/09/16 12:19	1

Lab Sample ID: LCS 500-322151/13-A
Matrix: Solid
Analysis Batch: 322479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.153		mg/Kg		92	80 - 120

Lab Sample ID: 500-107244-1 MS
Matrix: Solid
Analysis Batch: 322479

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.016	J	0.0919	0.0992		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-107244-1 MSD
Matrix: Solid
Analysis Batch: 322479

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.016	J	0.0988	0.109		mg/Kg	☼	94	75 - 125	9	20

Lab Sample ID: 500-107244-1 DU
Matrix: Solid
Analysis Batch: 322479

Client Sample ID: 2746-01-B87 (0-7)
Prep Type: Total/NA
Prep Batch: 322151

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.016	J	0.0175	J	mg/Kg	☼	10	20

Method: 9045D - pH

Lab Sample ID: 500-107244-6 DU
Matrix: Solid
Analysis Batch: 322568

Client Sample ID: 2746-01-B47 (0-7)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.76		7.580		SU		2	

Lab Sample ID: 500-107244-15 DU
Matrix: Solid
Analysis Batch: 322568

Client Sample ID: 2746-01-B43 (7-14)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.03		8.060		SU		0.4	

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Date Collected: 02/04/16 08:45

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 17:42	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 00:39	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:22	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 16:24		
					(End)	02/11/16 16:31		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B87 (0-7)

Lab Sample ID: 500-107244-1

Date Collected: 02/04/16 08:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 12:30	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 14:32	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 01:05	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 03:10	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:27	MJD	TAL CHI

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 18:25	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 00:53	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:26	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 16:31 (End) 02/11/16 16:38	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B87 (7-14)

Lab Sample ID: 500-107244-2

Date Collected: 02/04/16 08:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 12:55	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 15:01	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 01:55	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 03:35	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:35	MJD	TAL CHI

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 18:32	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 00:58	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:30	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:34	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 16:38		
					(End)	02/11/16 16:45		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B87 (14-20)

Lab Sample ID: 500-107244-3

Date Collected: 02/04/16 09:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 13:20	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 15:30	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:02	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 03:40	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:38	MJD	TAL CHI

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Date Collected: 02/04/16 10:05

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 18:39	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:03	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:34	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 16:45		
					(End)	02/11/16 16:52		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (0-7)

Lab Sample ID: 500-107244-4

Date Collected: 02/04/16 10:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 13:45	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 15:59	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:09	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 03:53	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:40	MJD	TAL CHI

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 18:45	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:09	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:38	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 16:52		
					(End)	02/11/16 16:59		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 14:10	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	323000	02/16/16 14:14	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:15	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B48 (7-13)

Lab Sample ID: 500-107244-5

Date Collected: 02/04/16 10:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 03:58	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:41	MJD	TAL CHI

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Date Collected: 02/04/16 10:30

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 18:52	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:14	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:51	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 16:59		
					(End)	02/11/16 17:06		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B47 (0-7)

Lab Sample ID: 500-107244-6

Date Collected: 02/04/16 10:30

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 14:35	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 16:58	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:22	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:03	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:43	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Date Collected: 02/04/16 10:35

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 18:59	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:19	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:55	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:41	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 17:13		
					(End)	02/11/16 17:20		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B47 (7-13)

Lab Sample ID: 500-107244-7

Date Collected: 02/04/16 10:35

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 15:00	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 17:26	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:29	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:08	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:45	MJD	TAL CHI

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 19:06	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:25	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 17:59	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:43	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 17:20 (End) 02/11/16 17:27	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B46 (0-5)

Lab Sample ID: 500-107244-8

Date Collected: 02/04/16 11:00

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 15:25	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 17:55	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:36	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:13	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:52	MJD	TAL CHI

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 19:28	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:30	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:03	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:44	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 17:27 (End) 02/11/16 17:34	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B46 (5-10)

Lab Sample ID: 500-107244-9

Date Collected: 02/04/16 11:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 15:50	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 18:24	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 02:58	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:19	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:54	MJD	TAL CHI

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Date Collected: 02/04/16 12:10

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 19:35	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:35	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:07	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 17:34 (End) 02/11/16 17:41	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (0-7)

Lab Sample ID: 500-107244-10

Date Collected: 02/04/16 12:10

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 16:15	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 18:54	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:05	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:24	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:56	MJD	TAL CHI

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 19:42	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:41	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:11	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 17:41		
					(End)	02/11/16 17:48		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 16:40	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 19:23	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:12	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B45 (7-14)

Lab Sample ID: 500-107244-11

Date Collected: 02/04/16 12:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:29	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 12:58	MJD	TAL CHI

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Date Collected: 02/04/16 12:40

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 19:48	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 01:54	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:15	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 22:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 17:48		
					(End)	02/11/16 17:55		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B44 (0-7)

Lab Sample ID: 500-107244-12

Date Collected: 02/04/16 12:40

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 17:05	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	323000	02/16/16 14:39	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:19	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:34	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:00	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Date Collected: 02/04/16 12:45

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 19:55	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:00	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:22	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 17:55		
					(End)	02/11/16 18:02		
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B44 (7-14)

Lab Sample ID: 500-107244-13

Date Collected: 02/04/16 12:45

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 17:30	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	323000	02/16/16 15:03	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:25	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:39	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:03	MJD	TAL CHI

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 20:02	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:05	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:26	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 18:02 (End) 02/11/16 18:09	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B43 (0-7)

Lab Sample ID: 500-107244-14

Date Collected: 02/04/16 13:15

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 17:55	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	323000	02/16/16 15:28	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:32	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:53	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:04	MJD	TAL CHI

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 20:09	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:10	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:30	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:04	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 18:09 (End) 02/11/16 18:16	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

Client Sample ID: 2746-01-B43 (7-14)

Lab Sample ID: 500-107244-15

Date Collected: 02/04/16 13:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 18:20	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 21:19	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:39	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 04:57	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:07	MJD	TAL CHI

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Date Collected: 02/04/16 13:55

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 20:15	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:15	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:42	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:05	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 18:23 (End) 02/11/16 18:30	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 08:39	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B23 (0-2)

Lab Sample ID: 500-107244-16

Date Collected: 02/04/16 13:55

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 18:45	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 21:48	AJD	TAL CHI
Total/NA	Prep	3541	DL		322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	10	323000	02/16/16 16:16	AJD	TAL CHI
Total/NA	Prep	3541	DL2		322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D	DL2	20	323000	02/16/16 17:31	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:46	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 05:03	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:09	MJD	TAL CHI

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 20:22	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:21	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:47	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 18:30		
					(End)	02/11/16 18:37		
Total/NA	Analysis	Moisture		1	322176	02/09/16 14:48	LWN	TAL CHI

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 19:10	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-01-B19 (0-2)

Lab Sample ID: 500-107244-17

Date Collected: 02/04/16 14:05

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 22:17	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:53	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 05:08	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:11	MJD	TAL CHI

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Date Collected: 02/04/16 14:20

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322709	02/12/16 20:29	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:26	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:51	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 18:37 (End) 02/11/16 18:44	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322176	02/09/16 14:48	LWN	TAL CHI

Client Sample ID: 2746-01-B22 (0-2)

Lab Sample ID: 500-107244-18

Date Collected: 02/04/16 14:20

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322825	02/15/16 19:35	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	323000	02/16/16 15:52	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 05:13	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:18	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Date Collected: 02/04/16 14:50

Matrix: Solid

Date Received: 02/04/16 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322147	02/08/16 14:30	JEF	TAL CHI
SPLP East	Prep	3010A			322286	02/10/16 08:44	JEF	TAL CHI
SPLP East	Analysis	6010B		1	322809	02/13/16 13:05	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6010B		1	322411	02/11/16 02:31	PJ1	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	3010A			322285	02/10/16 08:40	JEF	TAL CHI
TCLP	Analysis	6020A		1	322594	02/11/16 18:55	PFK	TAL CHI
TCLP	Leach	1311			322144	02/08/16 14:25	JEF	TAL CHI
TCLP	Prep	7470A			322257	02/09/16 15:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	322627	02/11/16 23:11	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 18:44		
					(End)	02/11/16 18:50		
Total/NA	Analysis	Moisture		1	322176	02/09/16 14:48	LWN	TAL CHI

Client Sample ID: 2746-61-B01 (0-5)

Lab Sample ID: 500-107244-19

Date Collected: 02/04/16 14:50

Matrix: Solid

Date Received: 02/04/16 16:50

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322315	02/05/16 07:30	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322897	02/16/16 08:27	EMA	TAL CHI
Total/NA	Prep	3541			322136	02/08/16 07:15	DAK	TAL CHI
Total/NA	Analysis	8270D		1	322880	02/15/16 23:15	AJD	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		10	322582	02/12/16 03:59	PJ1	TAL CHI
Total/NA	Prep	3050B			322299	02/10/16 09:30	JEF	TAL CHI
Total/NA	Analysis	6010B		1	322411	02/11/16 05:18	PJ1	TAL CHI
Total/NA	Prep	7471B			322151	02/08/16 16:10	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322479	02/09/16 13:20	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107244-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5200



500-107244 COC

Report To _____ (optional)
Contact: DE SC
Company: _____
Address: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To _____ (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107244
Chain of Custody Number: E905-12
Page _____ of _____
Temperature °C of Cooler: 21.42.9

Client		Client Project #		Preservative								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter										
Project Location/State		Lab Project #												
Sampler		Lab PM												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix								Comments
			Date	Time										
1		2146-01-B87(0-7)	2/4/16	0845	25	Voc	X	X	X	X	X			
2		2146-01-B87(7-14)	2/4/16	0856	25	Svcs	X	X	X	X	X			
3		2146-01-B87(14-20)	2/4/16	0900	25	Total PAH in mthls	X	X	X	X	X			
						7 Cu/SPAP PAH mthls	X	X	X	X	X			
						pH / % Solids	X	X	X	X	X			

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____

Requested Due Date _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>EE</u> Date: <u>2-4-16</u> Time: <u>1520</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/4/16</u> Time: <u>1520</u>	Lab Courier: <u>TJA</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/4/16</u> Time: <u>1050</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHT</u> Date: <u>2/5/16</u> Time: <u>0910</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____
 Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: PT
 Company: SC
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107244
 Chain of Custody Number: E905-13
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>EE</u>		<u>009241.0005-01</u>									
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>Law</u>		<u>58011818</u>									
Project Location/State		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>Cook County, IL</u>		<u>58011818</u>									
Sampler		Lab PIV		# of Containers		Matrix		Matrix		Comments	
<u>S. Cooper</u>		<u>P. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Comments
<u>4</u>		<u>2746-01-B348(0-7)</u>	<u>2-4-16</u>	<u>1005</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>5</u>		<u>2746-01-B348(7-13)</u>	<u>2-4-16</u>	<u>1010</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>6</u>		<u>2746-01-B347(0-7)</u>	<u>2-4-16</u>	<u>1030</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>7</u>		<u>2746-01-B347(7-13)</u>	<u>2-4-16</u>	<u>1035</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>8</u>		<u>2746-01-B346(0-5)</u>	<u>2-4-16</u>	<u>1100</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>9</u>		<u>2746-01-B346(5-7)</u>	<u>2-4-16</u>	<u>1105</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>10</u>		<u>2746-01-B345(0-7)</u>	<u>2-4-16</u>	<u>1210</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>11</u>		<u>2746-01-B345(7-14)</u>	<u>2-4-16</u>	<u>1215</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>12</u>		<u>2746-01-B344(0-7)</u>	<u>2-4-16</u>	<u>1240</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	
<u>13</u>		<u>2746-01-B344(7-14)</u>	<u>2-4-16</u>	<u>1245</u>	<u>2 S</u>	<u>VOL</u>	<u>SOIL</u>	<u>Total TA</u>	<u>metals</u>	<u>TCR/ISUP</u>	

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days) 7 Days
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>CE</u> Date: <u>2-4-16</u> Time: <u>1520</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/4/16</u> Time: <u>1520</u>
Relinquished By: <u>[Signature]</u> Company: <u>A</u> Date: <u>2/4/16</u> Time: <u>1650</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHI</u> Date: <u>2/5/16</u> Time: <u>0710</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)

Contact: DT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)

Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107244
Chain of Custody Number: E905-14
Page _____ of _____
Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>EE</u>		<u>1009341-0005-01</u>								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>F90</u>		<u>50011818</u>									
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Cent County, IL</u>		<u>50011818</u>									
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>S. Cooper</u>		<u>D. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>14</u>		<u>2746-01-B43(0-7)</u>	<u>2-4-16</u>	<u>1315</u>	<u>2 S</u>	<u>VOL</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>15</u>		<u>2746-01-B43(7-14)</u>	<u>2-4-16</u>	<u>1320</u>	<u>2 S</u>	<u>SVOC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>16</u>		<u>2746-01-B23(0-2)</u>	<u>2-4-16</u>	<u>1355</u>	<u>2 S</u>	<u>TOT/TAC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>17</u>		<u>2746-01-B19(0-2)</u>	<u>2-4-16</u>	<u>1405</u>	<u>2 S</u>	<u>MET-1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>18</u>		<u>2746-01-B22(0-2)</u>	<u>2-4-16</u>	<u>1420</u>	<u>2 S</u>	<u>TAC MET-1s</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2-4-16</u>											

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u>	Company <u>EE</u>	Date <u>2-4-16</u>	Time <u>1520</u>	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>2/4/16</u>	Time <u>1520</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>2/4/16</u>	Time <u>1650</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>2/5/16</u>	Time <u>0710</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key

WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air
 SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: DT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107244

Chain of Custody Number: E905-1B

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative							Preservative Key		
<u>EE</u>		<u>1009341-0005-01</u>									1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter							Comments		
<u>I90</u>		<u>5001818</u>											
Project Location/State		Lab Project #		Parameter							Comments		
<u>Cook County, IL</u>		<u>5001818</u>											
Sampler		Lab PM		Parameter							Comments		
<u>S. Cooper</u>		<u>D. Wright</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						Comments	
			Date	Time									
<u>19</u>		<u>2746-61-B01(0-5)</u>	<u>2-4-16</u>	<u>1450</u>	<u>2 S</u>	<u>Vec</u>	<u>Svec</u>	<u>ZnH</u>	<u>metals</u>	<u>TCUP/SPR</u>	<u>TA metals</u>	<u>12.7% Solids</u>	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u> Company: <u>EE</u> Date: <u>2-4-16</u> Time: <u>1520</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/4/16</u> Time: <u>1520</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/4/16</u> Time: <u>1620</u>	Received By: <u>[Signature]</u> Company: <u>TA-CRI</u> Date: <u>2/5/16</u> Time: <u>0710</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107244-1

Login Number: 107244

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107297-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/19/2016 3:33:43 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Job ID: 500-107297-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107297-1

Comments

No additional comments.

Receipt

The samples were received on 2/5/2016 4:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6° C, 2.9° C and 4.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch 500-322973 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and the laboratory control sample duplicate for batch 500-322898 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following sample contained two acid surrogates and one base/neutral surrogate outside acceptance limits: 2746-01-B60 (0-7) (500-107297-10). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits. Re-extraction was not performed since there were no Phenol hits. These results have been reported and qualified.

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-02-B02 (0-7) (500-107297-1), 2746-02-B02 (7-13) (500-107297-2), 2746-01-B58 (8-16) (500-107297-5), 2746-01-B59 (0-7)D (500-107297-7), 2746-01-B60 (7-14) (500-107297-11), 2746-01-B03 (0-8) (500-107297-15), 2746-01-B02 (8-15) (500-107297-18) and 2746-01-G03 (500-107297-21). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples contained two acid surrogates and one base/neutral surrogate outside acceptance limits: (500-107297-E-1-B MS) and (500-107297-E-1-C MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits. Re-extraction was not performed since there were no hits for any Phenols in the original sample. These results have been reported and qualified. (500-107297-E-1-B MS) and (500-107297-E-1-C MSD)

Method(s) 8270D: The method blank for 500- 323158 contained Di-n-butyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. (MB 500-322157/1-A)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 50-322157 recovered outside control limits (20%) for 2,4-Dimethylphenol (21%); 2-Methylphenol (21%); 2,4-Dinitrophenol (32%); Hexachlorocyclopentadiene (22%); and Phenol (25%). All % recoveries for these analytes were within limits, except for Indeno[1,2,3-cd]pyrene in the LCSD and Benzo[g,h,i]perylene in the LCS and LCSD. No further action was required. (LCS 500-322157/2-A) and (LCSD 500-322157/3-A)

Method(s) 8270D: LCS 00-322382/2-A had 2 analytes outside control limits: Dibenz(a,h)anthracene and Benzo[g,h,i]perylene. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. Therefore, corrective action was not performed. These results have been reported and qualified. (LCS 500-322382/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-322527 and analytical batch 500-322708 contained Chromium above the

Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Job ID: 500-107297-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

reporting limit (RL). Associated sample 2746-02-B02 (7-13) (500-107297-2) was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The following samples were diluted to bring the concentration of target and non-target analytes within the calibration range: 2746-01-B58 (0-8) (500-107297-4) and 2746-01-B01 (5-10) (500-107297-20). Elevated reporting limits (RLs) are provided.

Method(s) 6020A: The low level continuing calibration verification (CCVL) associated with batch 500-322858 recovered above the upper control limit for Sodium at 136%rec. The samples associated with this CCVL were at a level that would be unaffected by this level. The mid range CCV were within control limits for this analyte; therefore, the data have been reported.

Method(s) 6020A: The continuing calibration verification (CCV) associated with batch 500-322858 recovered above the upper control limit for all the elements. Only the MB and LCS were bracketed and both were within their control limits for the affected analytes; therefore, the data have been reported. The following samples are impacted: (LCS 500-322174/2-A) and (MB 500-322174/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (0-7)

Lab Sample ID: 500-107297-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J F1	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.010	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.17		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.031	J	0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.25		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.24	F1	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.16		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20	F1	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.058	F1	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.12		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.046		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.019	J	0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.061		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	25		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.30		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	140000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	8.9	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.5		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	8900	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	87000		53	21	mg/Kg	10	☼	6010B	Total/NA
Manganese	190		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.4		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.62		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	30		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	5.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.072	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	7.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.044		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0067	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (7-13) (Continued)

Lab Sample ID: 500-107297-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.015	J	0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0096	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	25		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	6.5		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000	B	10	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	17000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	19		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.84		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.046		0.016	0.0030	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.020	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.028	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.080		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (13-19) (Continued)

Lab Sample ID: 500-107297-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	350		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.45	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.049		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.55		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.63		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.067		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.012	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.091		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.044		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.054		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.080		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.046		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	15		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	180		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	4.4		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	9.4	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	26000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	45000		58	23	mg/Kg	10	☼	6010B	Total/NA
Manganese	2200		5.8	1.1	mg/Kg	10	☼	6010B	Total/NA
Nickel	19		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	810		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.084	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (0-8) (Continued)

Lab Sample ID: 500-107297-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.66	F1	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	13		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.038	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.16		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.69		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.054		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.011	J	0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.49	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.056		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.084	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.097		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.98		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0083	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.7		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7) (Continued)

Lab Sample ID: 500-107297-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	42		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	3.4		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000	B	11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.9		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	770		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	410		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.65		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.91	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.045		0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	8.49		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.011	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0083	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0055	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.012	J	0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.2		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.32		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3		2.8	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	10	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.0		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	16		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	520		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	790		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	390		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)D (Continued)

Lab Sample ID: 500-107297-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	57		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.057	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.87		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.013	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.035	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.5		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.79		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	20	B	0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.45	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.29		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.032		0.016	0.0032	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.078		0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (14-20) (Continued)

Lab Sample ID: 500-107297-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.021	J	0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.4		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.64		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	52000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.38	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.058		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.18	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.22		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.017	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.035	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.037		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.65		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.14		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.3		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.2		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.20		0.19	0.070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.51		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.56		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.10	J	0.19	0.068	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.83		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.47		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.56		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (0-7) (Continued)

Lab Sample ID: 500-107297-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	0.27		0.037	0.0096	mg/Kg	1		☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.080		0.037	0.0071	mg/Kg	1		☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.27		0.037	0.012	mg/Kg	1		☼	8270D	Total/NA
Arsenic	4.5		0.54	0.25	mg/Kg	1		☼	6010B	Total/NA
Barium	81		0.54	0.099	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.40		0.22	0.047	mg/Kg	1		☼	6010B	Total/NA
Boron	7.3		2.7	0.38	mg/Kg	1		☼	6010B	Total/NA
Cadmium	0.55		0.11	0.031	mg/Kg	1		☼	6010B	Total/NA
Calcium	61000	B	110	35	mg/Kg	10		☼	6010B	Total/NA
Chromium	14	B	0.54	0.093	mg/Kg	1		☼	6010B	Total/NA
Cobalt	7.1		0.27	0.061	mg/Kg	1		☼	6010B	Total/NA
Copper	37		0.54	0.12	mg/Kg	1		☼	6010B	Total/NA
Iron	13000	B	11	4.2	mg/Kg	1		☼	6010B	Total/NA
Lead	750		0.27	0.14	mg/Kg	1		☼	6010B	Total/NA
Magnesium	33000		5.4	2.2	mg/Kg	1		☼	6010B	Total/NA
Manganese	350		0.54	0.11	mg/Kg	1		☼	6010B	Total/NA
Nickel	19		0.54	0.15	mg/Kg	1		☼	6010B	Total/NA
Potassium	1000		27	4.4	mg/Kg	1		☼	6010B	Total/NA
Selenium	0.27	J	0.54	0.27	mg/Kg	1		☼	6010B	Total/NA
Sodium	1300		54	7.2	mg/Kg	1		☼	6010B	Total/NA
Vanadium	18		0.27	0.079	mg/Kg	1		☼	6010B	Total/NA
Zinc	140		1.1	0.34	mg/Kg	1		☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1			6010B	TCLP
Boron	0.66		0.50	0.050	mg/L	1			6010B	TCLP
Cadmium	0.0059		0.0050	0.0020	mg/L	1			6010B	TCLP
Lead	0.44		0.0075	0.0075	mg/L	1			6010B	TCLP
Manganese	1.0		0.025	0.010	mg/L	1			6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.87	B	0.50	0.020	mg/L	1			6010B	TCLP
Lead	1.3		0.0075	0.0075	mg/L	1			6010B	SPLP East
Manganese	0.47		0.025	0.010	mg/L	1			6010B	SPLP East
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1			6010B	SPLP East
Mercury	0.031		0.019	0.0099	mg/Kg	1		☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.035	0.0055	mg/Kg	1		☼	8270D	Total/NA
Phenanthrene	0.014	J	0.035	0.0050	mg/Kg	1		☼	8270D	Total/NA
Pyrene	0.017	J	0.035	0.0071	mg/Kg	1		☼	8270D	Total/NA
Chrysene	0.020	J	0.035	0.0097	mg/Kg	1		☼	8270D	Total/NA
Arsenic	5.5		0.53	0.24	mg/Kg	1		☼	6010B	Total/NA
Barium	6.0		0.53	0.096	mg/Kg	1		☼	6010B	Total/NA
Beryllium	0.20	J	0.21	0.046	mg/Kg	1		☼	6010B	Total/NA
Boron	4.8		2.6	0.37	mg/Kg	1		☼	6010B	Total/NA
Calcium	60000	B	110	34	mg/Kg	10		☼	6010B	Total/NA
Chromium	6.4	B	0.53	0.090	mg/Kg	1		☼	6010B	Total/NA
Cobalt	4.9		0.26	0.059	mg/Kg	1		☼	6010B	Total/NA
Copper	14		0.53	0.11	mg/Kg	1		☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (7-14) (Continued)

Lab Sample ID: 500-107297-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7100	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	700		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		53	6.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.27	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.051		0.015	0.0029	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.0052		0.0038	0.0013	mg/Kg	1	☼	8260B	Total/NA
Acenaphthene	0.0090	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.54	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.21	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.54	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	670		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.65		0.54	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.066	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (14-20) (Continued)

Lab Sample ID: 500-107297-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.029		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.0077		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.068		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0059	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0097	J	0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.012	J	0.036	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.026	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.17		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.20		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.072		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.089		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.061		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.074		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.041		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.038		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	71		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	5.6		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	20000	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	34		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	230		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	860		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	110		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0038	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.027		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (0-8) (Continued)

Lab Sample ID: 500-107297-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.11		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	5.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.36	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.0091		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.011	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.63		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.013	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0084	J	0.034	0.0069	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.52	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.044	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	600		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.52	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0077		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.072		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	7.98		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.013	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.012	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (0-8) (Continued)

Lab Sample ID: 500-107297-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.021	J	0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.036		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.32		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.069		0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.45		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.32		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.19		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.20		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.25		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.086		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.16		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.073		0.035	0.0091	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.026	J	0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.074		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.53	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.062	J	0.11	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	40000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.53	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	66		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	750		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	510		53	6.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	2.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.07		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0090	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.071	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (8-12) (Continued)

Lab Sample ID: 500-107297-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	79000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	410		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	23		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.41	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.095	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.057		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	23		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	15000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	11	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.2		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	10000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	760		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.086	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (0-8) (Continued)

Lab Sample ID: 500-107297-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.016	0.0085	mg/Kg	1	☼	7471B	Total/NA
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.054		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.020	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.014	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.0		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	15		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Calcium	77000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	450		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	450		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.49	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.077	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.64		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.017	0.0033	mg/Kg	1	☼	8260B	Total/NA
Arsenic	3.7		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.53	0.098	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.45		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	3.5		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.053	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500	B	11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (0-5) (Continued)

Lab Sample ID: 500-107297-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.4		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2400		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		53	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.20	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.24	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	4.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.43	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	3.1		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.79		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	9.9		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	22		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	41000		59	24	mg/Kg	10	☼	6010B	Total/NA
Manganese	1800		5.9	1.2	mg/Kg	10	☼	6010B	Total/NA
Nickel	41		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	74		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (5-10) (Continued)

Lab Sample ID: 500-107297-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.024		0.020	0.010	mg/Kg	1	☒	7471B	Total/NA
pH	7.73		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-G03

Lab Sample ID: 500-107297-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0033	J	0.0092	0.0016	mg/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.0015	J B	0.0046	0.00067	mg/L	1		8270D	Total/NA
Arsenic	0.0073	F1	0.0010	0.00044	mg/L	1		6020A	Total Recoverable
Barium	0.067		0.0025	0.00084	mg/L	1		6020A	Total Recoverable
Boron	0.17		0.050	0.025	mg/L	1		6020A	Total Recoverable
Cadmium	0.00038	J	0.00050	0.00019	mg/L	1		6020A	Total Recoverable
Calcium	460		1.0	0.53	mg/L	5		6020A	Total Recoverable
Chromium	0.0082		0.0050	0.00061	mg/L	1		6020A	Total Recoverable
Cobalt	0.040		0.0010	0.00019	mg/L	1		6020A	Total Recoverable
Copper	0.022		0.0020	0.00096	mg/L	1		6020A	Total Recoverable
Iron	18		0.10	0.026	mg/L	1		6020A	Total Recoverable
Lead	0.0067		0.00050	0.00014	mg/L	1		6020A	Total Recoverable
Magnesium	190		0.20	0.083	mg/L	1		6020A	Total Recoverable
Manganese	1.7	F1	0.0025	0.00099	mg/L	1		6020A	Total Recoverable
Nickel	0.047		0.0020	0.00053	mg/L	1		6020A	Total Recoverable
Potassium	5.2		0.50	0.19	mg/L	1		6020A	Total Recoverable
Selenium	0.0014	J F1	0.0025	0.00083	mg/L	1		6020A	Total Recoverable
Sodium	900	^	1.0	0.44	mg/L	5		6020A	Total Recoverable
Thallium	0.00062	J B	0.0020	0.00059	mg/L	1		6020A	Total Recoverable
Vanadium	0.0071		0.0050	0.0022	mg/L	1		6020A	Total Recoverable
Zinc	0.088		0.020	0.0046	mg/L	1		6020A	Total Recoverable

Client Sample ID: 2746-00-TB01

Lab Sample ID: 500-107297-22

No Detections.

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.021	J	0.038	0.0054	mg/Kg	1	☒	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B37 (0-8) (Continued)

Lab Sample ID: 500-107297-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoranthene	0.036	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA	
Pyrene	0.027	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA	
Chrysene	0.025	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	0.027	J	0.038	0.0084	mg/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	0.016	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA	
Arsenic	6.6	F1	0.59	0.27	mg/Kg	1	☼	6010B	Total/NA	
Barium	53		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA	
Beryllium	0.71		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA	
Boron	13		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA	
Cadmium	0.13		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA	
Calcium	49000	B	120	38	mg/Kg	10	☼	6010B	Total/NA	
Chromium	19	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA	
Cobalt	11		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA	
Copper	29	F1	0.59	0.13	mg/Kg	1	☼	6010B	Total/NA	
Iron	18000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA	
Lead	57	F2	0.30	0.15	mg/Kg	1	☼	6010B	Total/NA	
Magnesium	21000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA	
Manganese	270		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA	
Nickel	30		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA	
Potassium	2800		30	4.8	mg/Kg	1	☼	6010B	Total/NA	
Sodium	300		59	7.8	mg/Kg	1	☼	6010B	Total/NA	
Vanadium	23		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA	
Zinc	67	F1 F2	1.2	0.37	mg/Kg	1	☼	6010B	Total/NA	
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP	
Boron	0.073	J B	0.50	0.050	mg/L	1		6010B	TCLP	
Manganese	0.79		0.025	0.010	mg/L	1		6010B	TCLP	
Zinc	0.37	J B	0.50	0.020	mg/L	1		6010B	TCLP	
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East	
Mercury	0.028		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA	
pH	7.61		0.200	0.200	SU	1		9045D	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method	Method Description	Protocol	Laboratory
8260B	VOC	SW846	TAL CHI
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7470A	Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107297-1	2746-02-B02 (0-7)	Solid	02/05/16 08:30	02/05/16 16:55
500-107297-2	2746-02-B02 (7-13)	Solid	02/05/16 08:35	02/05/16 16:55
500-107297-3	2746-02-B02 (13-19)	Solid	02/05/16 08:40	02/05/16 16:55
500-107297-4	2746-01-B58 (0-8)	Solid	02/05/16 09:20	02/05/16 16:55
500-107297-5	2746-01-B58 (8-16)	Solid	02/05/16 09:25	02/05/16 16:55
500-107297-6	2746-01-B59 (0-7)	Solid	02/05/16 09:55	02/05/16 16:55
500-107297-7	2746-01-B59 (0-7)D	Solid	02/05/16 09:55	02/05/16 16:55
500-107297-8	2746-01-B59 (7-14)	Solid	02/05/16 10:00	02/05/16 16:55
500-107297-9	2746-01-B59 (14-20)	Solid	02/05/16 10:05	02/05/16 16:55
500-107297-10	2746-01-B60 (0-7)	Solid	02/05/16 10:25	02/05/16 16:55
500-107297-11	2746-01-B60 (7-14)	Solid	02/05/16 10:30	02/05/16 16:55
500-107297-12	2746-01-B60 (14-20)	Solid	02/05/16 10:40	02/05/16 16:55
500-107297-13	2746-01-B04 (0-8)	Solid	02/05/16 11:25	02/05/16 16:55
500-107297-14	2746-01-B04 (8-17)	Solid	02/05/16 11:30	02/05/16 16:55
500-107297-15	2746-01-B03 (0-8)	Solid	02/05/16 11:55	02/05/16 16:55
500-107297-16	2746-01-B03 (8-12)	Solid	02/05/16 12:00	02/05/16 16:55
500-107297-17	2746-01-B02 (0-8)	Solid	02/05/16 12:20	02/05/16 16:55
500-107297-18	2746-01-B02 (8-15)	Solid	02/05/16 12:25	02/05/16 16:55
500-107297-19	2746-01-B01 (0-5)	Solid	02/05/16 13:05	02/05/16 16:55
500-107297-20	2746-01-B01 (5-10)	Solid	02/05/16 13:10	02/05/16 16:55
500-107297-21	2746-01-G03	Water	02/05/16 13:30	02/05/16 16:55
500-107297-22	2746-00-TB01	Water	02/05/16 00:00	02/05/16 16:55
500-107297-23	2746-01-B37 (0-8)	Solid	02/05/16 14:25	02/05/16 16:55

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (0-7)

Lab Sample ID: 500-107297-1

Date Collected: 02/05/16 08:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Chlorobenzene	<0.0038		0.0038	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Tetrachloroethene	<0.0038		0.0038	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/06/16 08:25	02/16/16 00:19	1
Dibromofluoromethane	95		75 - 120	02/06/16 08:25	02/16/16 00:19	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/06/16 08:25	02/16/16 00:19	1
Toluene-d8 (Surr)	107		75 - 122	02/06/16 08:25	02/16/16 00:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19	F1	0.19	0.082	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
1,3-Dichlorobenzene	<0.19	F1	0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
1,4-Dichlorobenzene	<0.19	F1	0.19	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (0-7)

Lab Sample ID: 500-107297-1

Date Collected: 02/05/16 08:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19	F1	0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2-Methylphenol	<0.19	F1	0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2-Chlorophenol	<0.19	F1	0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Nitrobenzene	<0.037	F1	0.037	0.0092	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Bis(2-chloroethoxy)methane	<0.19	F1	0.19	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
1,2,4-Trichlorobenzene	<0.19	F1	0.19	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Isophorone	<0.19	F1	0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,4-Dimethylphenol	<0.37	F1	0.37	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Hexachlorobutadiene	<0.19	F1	0.19	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Naphthalene	0.011	J F1	0.037	0.0057	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,4-Dichlorophenol	<0.37	F1	0.37	0.088	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Hexachlorocyclopentadiene	<0.74	F1	0.74	0.21	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2-Methylnaphthalene	<0.037	F1	0.037	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4-Chloro-3-methylphenol	<0.37	F1	0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,4-Dinitrophenol	<0.74	F1	0.74	0.65	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Acenaphthene	0.010	J	0.037	0.0066	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Fluorene	0.011	J	0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4-Bromophenyl phenyl ether	<0.19	F1	0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Hexachlorobenzene	<0.074	F1	0.074	0.0085	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Pentachlorophenol	<0.74	F1	0.74	0.59	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
N-Nitrosodiphenylamine	<0.19	F1	0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
4,6-Dinitro-2-methylphenol	<0.74	F1	0.74	0.30	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Phenanthrene	0.17		0.037	0.0051	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Anthracene	0.031	J	0.037	0.0062	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Fluoranthene	0.25		0.037	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Pyrene	0.24	F1	0.037	0.0073	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.070	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Benzo[a]anthracene	0.12		0.037	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (0-7)

Lab Sample ID: 500-107297-1

Date Collected: 02/05/16 08:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.037	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.067	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Benzo[b]fluoranthene	0.20	F1	0.037	0.0080	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Benzo[k]fluoranthene	0.058	F1	0.037	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Benzo[a]pyrene	0.12		0.037	0.0071	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Indeno[1,2,3-cd]pyrene	0.046		0.037	0.0096	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Dibenz(a,h)anthracene	0.019	J	0.037	0.0071	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
Benzo[g,h,i]perylene	0.061		0.037	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		25 - 110	02/10/16 07:10	02/16/16 19:18	1
Phenol-d5	112	X	31 - 110	02/10/16 07:10	02/16/16 19:18	1
Nitrobenzene-d5	97		25 - 115	02/10/16 07:10	02/16/16 19:18	1
2-Fluorobiphenyl	93		25 - 119	02/10/16 07:10	02/16/16 19:18	1
2,4,6-Tribromophenol	97		35 - 137	02/10/16 07:10	02/16/16 19:18	1
Terphenyl-d14	111		36 - 134	02/10/16 07:10	02/16/16 19:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Arsenic	7.2		0.53	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Barium	25		0.53	0.096	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Beryllium	0.30		0.21	0.046	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Boron	13		2.6	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Calcium	140000	B	110	34	mg/Kg	☼	02/11/16 15:41	02/13/16 17:52	10
Chromium	8.9	B	0.53	0.091	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Cobalt	3.5		0.26	0.060	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Copper	11		0.53	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Iron	8900	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Lead	24		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Magnesium	87000		53	21	mg/Kg	☼	02/11/16 15:41	02/13/16 17:52	10
Manganese	190		0.53	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Nickel	9.4		0.53	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Potassium	1100		26	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Selenium	0.62		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Sodium	420		53	7.0	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Vanadium	10		0.26	0.077	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1
Zinc	30		1.1	0.33	mg/Kg	☼	02/11/16 15:41	02/13/16 13:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 12:40	1
Boron	0.12	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (0-7)

Lab Sample ID: 500-107297-1

Date Collected: 02/05/16 08:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 12:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:40	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:40	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 12:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 12:40	1
Manganese	5.2		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:40	1
Nickel	0.024	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 12:40	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:40	1
Zinc	0.072	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 12:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 01:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 13:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 13:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 12:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0098	mg/Kg	☼	02/11/16 15:15	02/12/16 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			02/11/16 20:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Date Collected: 02/05/16 08:35

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Chloroethane	<0.0037	*	0.0037	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Chloroform	<0.0037		0.0037	0.00072	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,2-Dichloropropane	<0.0037		0.0037	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,3-Dichloropropane, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Vinyl chloride	<0.0037		0.0037	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1
Xylenes, Total	<0.0074		0.0074	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/06/16 08:25	02/16/16 00:45	1
Dibromofluoromethane	94		75 - 120	02/06/16 08:25	02/16/16 00:45	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/06/16 08:25	02/16/16 00:45	1
Toluene-d8 (Surr)	104		75 - 122	02/06/16 08:25	02/16/16 00:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Date Collected: 02/05/16 08:35

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Phenanthrene	0.044		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Pyrene	0.013 J		0.037	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Benzo[a]anthracene	0.0067 J		0.037	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Date Collected: 02/05/16 08:35

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.037	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Benzo[b]fluoranthene	0.015	J	0.037	0.0080	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Benzo[a]pyrene	0.0096	J	0.037	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	117	X	25 - 110	02/10/16 07:10	02/16/16 19:47	1
Phenol-d5	109		31 - 110	02/10/16 07:10	02/16/16 19:47	1
Nitrobenzene-d5	100		25 - 115	02/10/16 07:10	02/16/16 19:47	1
2-Fluorobiphenyl	94		25 - 119	02/10/16 07:10	02/16/16 19:47	1
2,4,6-Tribromophenol	93		35 - 137	02/10/16 07:10	02/16/16 19:47	1
Terphenyl-d14	112		36 - 134	02/10/16 07:10	02/16/16 19:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Arsenic	8.4		0.52	0.24	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Barium	25		0.52	0.096	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Beryllium	0.40		0.21	0.045	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Boron	6.5		2.6	0.36	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Calcium	26000	B	10	3.4	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Chromium	12	B	0.52	0.090	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Cobalt	6.8		0.26	0.059	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Copper	25		0.52	0.11	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Iron	16000	B	10	4.0	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Lead	13		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Magnesium	17000		5.2	2.1	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Manganese	280		0.52	0.10	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Nickel	19		0.52	0.14	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Potassium	1300		26	4.3	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Sodium	460		52	6.9	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Vanadium	16		0.26	0.076	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1
Zinc	57		1.0	0.33	mg/Kg	☼	02/11/16 15:41	02/12/16 16:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 12:47	1
Boron	0.55		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Date Collected: 02/05/16 08:35

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 12:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:47	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:47	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 12:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 12:47	1
Manganese	2.5		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:47	1
Nickel	0.034		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 12:47	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:47	1
Zinc	0.12	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 12:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 01:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 13:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 12:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.200	0.200	SU			02/11/16 20:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.046		0.016	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Chloroethane	<0.0039	*	0.0039	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/06/16 08:25	02/16/16 01:10	1
Dibromofluoromethane	96		75 - 120	02/06/16 08:25	02/16/16 01:10	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/16 08:25	02/16/16 01:10	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 01:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Naphthalene	0.020	J	0.038	0.0059	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2-Methylnaphthalene	0.028	J	0.038	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Phenanthrene	0.080		0.038	0.0053	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Pyrene	0.019	J	0.038	0.0076	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.038	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
Benzo[g,h,i]perylene	0.015	J	0.038	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		25 - 110	02/10/16 07:10	02/16/16 20:16	1
Phenol-d5	102		31 - 110	02/10/16 07:10	02/16/16 20:16	1
Nitrobenzene-d5	95		25 - 115	02/10/16 07:10	02/16/16 20:16	1
2-Fluorobiphenyl	92		25 - 119	02/10/16 07:10	02/16/16 20:16	1
2,4,6-Tribromophenol	72		35 - 137	02/10/16 07:10	02/16/16 20:16	1
Terphenyl-d14	115		36 - 134	02/10/16 07:10	02/16/16 20:16	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Arsenic	6.9		0.53	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Barium	42		0.53	0.097	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Beryllium	0.63		0.21	0.046	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Boron	13		2.7	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Calcium	61000	B	110	34	mg/Kg	☼	02/11/16 15:41	02/13/16 17:56	10
Chromium	16	B	0.53	0.091	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Cobalt	13		0.27	0.060	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Copper	25		0.53	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Iron	18000	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Lead	13		0.27	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Magnesium	27000		5.3	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Manganese	350		0.53	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Nickel	33		0.53	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Potassium	2400		27	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Sodium	180		53	7.0	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Thallium	0.45	J	0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Vanadium	18		0.27	0.078	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1
Zinc	48		1.1	0.34	mg/Kg	☼	02/11/16 15:41	02/13/16 13:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 12:54	1
Boron	0.62		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 12:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:54	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:54	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 12:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 12:54	1
Manganese	2.0		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:54	1
Nickel	0.049		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 12:54	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:54	1
Zinc	0.33	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 12:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.55		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 01:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 13:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 13:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0099	mg/Kg	☼	02/11/16 15:15	02/14/16 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU			02/11/16 20:56	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Date Collected: 02/05/16 09:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Chloroethane	<0.0039	*	0.0039	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/06/16 08:25	02/16/16 01:36	1
Dibromofluoromethane	96		75 - 120	02/06/16 08:25	02/16/16 01:36	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/06/16 08:25	02/16/16 01:36	1
Toluene-d8 (Surr)	107		75 - 122	02/06/16 08:25	02/16/16 01:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Date Collected: 02/05/16 09:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Phenanthrene	0.067		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Anthracene	0.012 J		0.037	0.0063	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Fluoranthene	0.10		0.037	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Pyrene	0.091		0.037	0.0075	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Benzo[a]anthracene	0.044		0.037	0.0051	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Date Collected: 02/05/16 09:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.054		0.037	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Benzo[b]fluoranthene	0.080		0.037	0.0081	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Benzo[k]fluoranthene	0.030	J	0.037	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Benzo[a]pyrene	0.046		0.037	0.0073	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
Benzo[g,h,i]perylene	0.022	J	0.037	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		25 - 110	02/10/16 07:10	02/16/16 20:45	1
Phenol-d5	103		31 - 110	02/10/16 07:10	02/16/16 20:45	1
Nitrobenzene-d5	91		25 - 115	02/10/16 07:10	02/16/16 20:45	1
2-Fluorobiphenyl	87		25 - 119	02/10/16 07:10	02/16/16 20:45	1
2,4,6-Tribromophenol	94		35 - 137	02/10/16 07:10	02/16/16 20:45	1
Terphenyl-d14	112		36 - 134	02/10/16 07:10	02/16/16 20:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Arsenic	15		0.58	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Barium	180		0.58	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Beryllium	0.36		0.23	0.050	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Boron	4.4		2.9	0.40	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Calcium	73000	B	120	37	mg/Kg	☼	02/11/16 15:41	02/13/16 18:01	10
Chromium	9.4	B	0.58	0.099	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Cobalt	7.5		0.29	0.065	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Copper	13		0.58	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Iron	26000	B	12	4.4	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Lead	24		0.29	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Magnesium	45000		58	23	mg/Kg	☼	02/11/16 15:41	02/13/16 18:01	10
Manganese	2200		5.8	1.1	mg/Kg	☼	02/11/16 15:41	02/13/16 18:01	10
Nickel	19		0.58	0.16	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Potassium	700		29	4.7	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Sodium	810		58	7.6	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Vanadium	17		0.29	0.084	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1
Zinc	52		1.2	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 13:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 13:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 13:01	1
Boron	0.084	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 13:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Date Collected: 02/05/16 09:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 13:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:01	1
Cobalt	0.034		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:01	1
Iron	0.66	F1	0.40	0.20	mg/L		02/11/16 15:16	02/13/16 13:01	1
Lead	0.010		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 13:01	1
Manganese	13		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:01	1
Nickel	0.039		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 13:01	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:01	1
Zinc	0.038	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 13:01	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.16		0.0075	0.0075	mg/L		02/11/16 15:25	02/13/16 01:47	1
Manganese	0.69		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 01:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 13:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 13:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0095	mg/Kg	☼	02/11/16 15:15	02/14/16 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			02/11/16 21:03	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/06/16 08:25	02/16/16 02:01	1
Dibromofluoromethane	94		75 - 120	02/06/16 08:25	02/16/16 02:01	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/06/16 08:25	02/16/16 02:01	1
Toluene-d8 (Surr)	102		75 - 122	02/06/16 08:25	02/16/16 02:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Phenanthrene	0.054		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Pyrene	0.016 J		0.037	0.0075	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.037	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Benzo[b]fluoranthene	0.011	J	0.037	0.0081	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	111	X	25 - 110				02/10/16 07:10	02/16/16 21:14	1
Phenol-d5	107		31 - 110				02/10/16 07:10	02/16/16 21:14	1
Nitrobenzene-d5	103		25 - 115				02/10/16 07:10	02/16/16 21:14	1
2-Fluorobiphenyl	95		25 - 119				02/10/16 07:10	02/16/16 21:14	1
2,4,6-Tribromophenol	87		35 - 137				02/10/16 07:10	02/16/16 21:14	1
Terphenyl-d14	122		36 - 134				02/10/16 07:10	02/16/16 21:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Arsenic	8.3		0.56	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Barium	34		0.56	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Beryllium	0.56		0.23	0.049	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Boron	11		2.8	0.39	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Calcium	69000	B	110	36	mg/Kg	☼	02/11/16 15:41	02/13/16 18:05	10
Chromium	15	B	0.56	0.097	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Cobalt	12		0.28	0.064	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Copper	24		0.56	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Iron	17000	B	11	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Lead	14		0.28	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Magnesium	31000		5.6	2.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Manganese	420		0.56	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Nickel	31		0.56	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Potassium	2300		28	4.6	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Sodium	280		56	7.4	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Thallium	0.49	J	0.56	0.28	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Vanadium	17		0.28	0.082	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1
Zinc	48		1.1	0.36	mg/Kg	☼	02/11/16 15:41	02/13/16 13:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 13:28	1
Boron	0.68		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 13:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 13:28	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:28	1
Cobalt	0.021	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:28	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 13:28	1
Manganese	1.9		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:28	1
Nickel	0.056		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 13:28	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 13:28	1
Zinc	0.084	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 13:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.097		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 01:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 13:37	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 13:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/11/16 21:10	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Chlorobenzene	<0.0038		0.0038	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Tetrachloroethene	<0.0038		0.0038	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Vinyl chloride	<0.0038		0.0038	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/06/16 08:25	02/16/16 02:26	1
Dibromofluoromethane	96		75 - 120	02/06/16 08:25	02/16/16 02:26	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/06/16 08:25	02/16/16 02:26	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 02:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Fluoranthene	0.0083	J	0.037	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		25 - 110	02/10/16 07:10	02/16/16 16:53	1
Phenol-d5	110		31 - 110	02/10/16 07:10	02/16/16 16:53	1
Nitrobenzene-d5	100		25 - 115	02/10/16 07:10	02/16/16 16:53	1
2-Fluorobiphenyl	89		25 - 119	02/10/16 07:10	02/16/16 16:53	1
2,4,6-Tribromophenol	95		35 - 137	02/10/16 07:10	02/16/16 16:53	1
Terphenyl-d14	103		36 - 134	02/10/16 07:10	02/16/16 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Arsenic	8.7		0.54	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Barium	42		0.54	0.098	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Beryllium	0.38		0.22	0.047	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Boron	3.4		2.7	0.38	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Cadmium	0.11		0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Calcium	30000	B	11	3.5	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Chromium	12	B	0.54	0.093	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Cobalt	8.9		0.27	0.061	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Copper	22		0.54	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Iron	15000	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Lead	14		0.27	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Magnesium	18000		5.4	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Manganese	560		0.54	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Nickel	23		0.54	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Potassium	770		27	4.4	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Sodium	410		54	7.1	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Vanadium	21		0.27	0.079	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1
Zinc	74		1.1	0.34	mg/Kg	☼	02/11/16 15:41	02/13/16 13:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 13:50	1
Boron	0.65		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 13:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Manganese	1.3		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Nickel	0.013	J	0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 13:50	1
Zinc	0.91	B	0.50	0.020	mg/L	-	02/11/16 15:16	02/13/16 13:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L	-	02/11/16 15:25	02/13/16 02:17	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:16	02/12/16 13:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:16	02/12/16 13:49	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 13:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.017	0.0089	mg/Kg	☼	02/11/16 15:15	02/14/16 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU	-		02/11/16 21:17	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/06/16 08:25	02/16/16 02:52	1
Dibromofluoromethane	97		75 - 120	02/06/16 08:25	02/16/16 02:52	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/06/16 08:25	02/16/16 02:52	1
Toluene-d8 (Surr)	108		75 - 122	02/06/16 08:25	02/16/16 02:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2-Methylnaphthalene	<0.036		0.036	0.0066	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Phenanthrene	<0.036		0.036	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Fluoranthene	0.011	J	0.036	0.0067	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Pyrene	0.0083	J	0.036	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Benzo[a]anthracene	0.0055	J	0.036	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Benzo[b]fluoranthene	0.012	J	0.036	0.0078	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		25 - 110	02/10/16 07:10	02/16/16 17:22	1
Phenol-d5	115	X	31 - 110	02/10/16 07:10	02/16/16 17:22	1
Nitrobenzene-d5	96		25 - 115	02/10/16 07:10	02/16/16 17:22	1
2-Fluorobiphenyl	90		25 - 119	02/10/16 07:10	02/16/16 17:22	1
2,4,6-Tribromophenol	105		35 - 137	02/10/16 07:10	02/16/16 17:22	1
Terphenyl-d14	113		36 - 134	02/10/16 07:10	02/16/16 17:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Arsenic	5.2		0.55	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Barium	29		0.55	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Beryllium	0.32		0.22	0.048	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Boron	4.3		2.8	0.38	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Cadmium	0.11		0.11	0.032	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Calcium	66000	B	110	35	mg/Kg	☼	02/11/16 15:41	02/13/16 18:21	10
Chromium	10	B	0.55	0.095	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Cobalt	7.0		0.28	0.062	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Copper	16		0.55	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Iron	11000	B	11	4.2	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Lead	11		0.28	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Magnesium	34000		5.5	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Manganese	520		0.55	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Nickel	16		0.55	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Potassium	790		28	4.5	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Sodium	390		55	7.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Vanadium	16		0.28	0.080	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1
Zinc	57		1.1	0.35	mg/Kg	☼	02/11/16 15:41	02/13/16 13:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:08	1
Boron	0.057	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Manganese	1.6		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Nickel	0.015	J	0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:08	1
Zinc	0.11	J B	0.50	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.87		0.025	0.010	mg/L	-	02/11/16 15:25	02/13/16 02:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:16	02/12/16 13:53	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:16	02/12/16 13:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 13:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU	-		02/11/16 21:24	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Dibromochloromethane	<0.0040		0.0040	0.00045	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,1-Dichloroethane	<0.0040		0.0040	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Styrene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/06/16 08:25	02/16/16 03:18	1
Dibromofluoromethane	95		75 - 120	02/06/16 08:25	02/16/16 03:18	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/06/16 08:25	02/16/16 03:18	1
Toluene-d8 (Surr)	106		75 - 122	02/06/16 08:25	02/16/16 03:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2-Methylnaphthalene	0.013	J	0.039	0.0072	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Phenanthrene	0.035	J	0.039	0.0055	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Pyrene	0.011	J	0.039	0.0078	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.039	0.011	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/17/16 17:08	02/18/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	02/17/16 17:08	02/18/16 14:34	1
Phenol-d5	74		31 - 110	02/17/16 17:08	02/18/16 14:34	1
Nitrobenzene-d5	64		25 - 115	02/17/16 17:08	02/18/16 14:34	1
2-Fluorobiphenyl	65		25 - 119	02/17/16 17:08	02/18/16 14:34	1
2,4,6-Tribromophenol	67		35 - 137	02/17/16 17:08	02/18/16 14:34	1
Terphenyl-d14	83		36 - 134	02/17/16 17:08	02/18/16 14:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Arsenic	6.5		0.57	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Barium	51		0.57	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Beryllium	0.79		0.23	0.049	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Boron	15		2.8	0.40	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Calcium	64000	B	110	36	mg/Kg	☼	02/11/16 15:41	02/13/16 18:25	10
Chromium	20	B	0.57	0.097	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Copper	21		0.57	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Iron	19000	B	11	4.4	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Lead	12		0.28	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Magnesium	24000		5.7	2.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Manganese	340		0.57	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Nickel	34		0.57	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Potassium	3000		28	4.6	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Sodium	280		57	7.5	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Vanadium	21		0.28	0.083	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1
Zinc	53		1.1	0.36	mg/Kg	☼	02/11/16 15:41	02/13/16 13:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:15	1
Boron	0.074	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 14:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:15	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:15	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 14:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 14:15	1
Manganese	2.3		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:15	1
Nickel	0.045		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 14:15	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:15	1
Zinc	0.45	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 14:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 02:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 13:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 13:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.0099	mg/Kg	☼	02/11/16 15:15	02/14/16 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			02/11/16 21:31	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.016	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/06/16 08:25	02/16/16 03:43	1
Dibromofluoromethane	93		75 - 120	02/06/16 08:25	02/16/16 03:43	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/06/16 08:25	02/16/16 03:43	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 03:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Naphthalene	0.078		0.036	0.0056	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2-Methylnaphthalene	<0.036		0.036	0.0068	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Phenanthrene	0.11		0.036	0.0051	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Fluoranthene	<0.036		0.036	0.0068	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Pyrene	0.021 J		0.036	0.0073	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.036	0.010	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0095	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
Benzo[g,h,i]perylene	0.015	J	0.036	0.012	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/17/16 17:08	02/18/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	02/17/16 17:08	02/18/16 15:03	1
Phenol-d5	76		31 - 110	02/17/16 17:08	02/18/16 15:03	1
Nitrobenzene-d5	73		25 - 115	02/17/16 17:08	02/18/16 15:03	1
2-Fluorobiphenyl	72		25 - 119	02/17/16 17:08	02/18/16 15:03	1
2,4,6-Tribromophenol	70		35 - 137	02/17/16 17:08	02/18/16 15:03	1
Terphenyl-d14	98		36 - 134	02/17/16 17:08	02/18/16 15:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Arsenic	9.4		0.53	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Barium	34		0.53	0.097	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Beryllium	0.64		0.21	0.046	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Boron	13		2.6	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Calcium	52000	B	110	34	mg/Kg	☼	02/11/16 15:41	02/13/16 18:29	10
Chromium	16	B	0.53	0.091	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Cobalt	14		0.26	0.060	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Copper	32		0.53	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Iron	19000	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Lead	17		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Magnesium	26000		5.3	2.1	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Manganese	330		0.53	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Nickel	36		0.53	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Potassium	2500		26	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Sodium	160		53	7.0	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Thallium	0.38	J	0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Vanadium	17		0.26	0.077	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1
Zinc	50		1.1	0.33	mg/Kg	☼	02/11/16 15:41	02/13/16 13:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:22	1
Boron	0.61		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 14:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:22	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:22	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 14:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 14:22	1
Manganese	2.1		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:22	1
Nickel	0.058		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 14:22	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:22	1
Zinc	0.18	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 14:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.22		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 02:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:02	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0099	mg/Kg	☼	02/11/16 15:15	02/14/16 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.56		0.200	0.200	SU			02/11/16 21:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Date Collected: 02/05/16 10:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/06/16 08:25	02/16/16 04:09	1
Dibromofluoromethane	97		75 - 120	02/06/16 08:25	02/16/16 04:09	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/06/16 08:25	02/16/16 04:09	1
Toluene-d8 (Surr)	104		75 - 122	02/06/16 08:25	02/16/16 04:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Date Collected: 02/05/16 10:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Naphthalene	0.017	J	0.037	0.0057	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2-Methylnaphthalene	0.015	J	0.037	0.0068	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Acenaphthylene	0.012	J	0.037	0.0049	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Acenaphthene	0.035	J	0.037	0.0066	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Fluorene	0.037		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Phenanthrene	0.65		0.037	0.0052	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Anthracene	0.14		0.037	0.0062	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Fluoranthene	1.3		0.037	0.0069	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Pyrene	1.2		0.037	0.0073	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Butyl benzyl phthalate	0.20		0.19	0.070	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Benzo[a]anthracene	0.51		0.037	0.0050	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Date Collected: 02/05/16 10:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.56		0.037	0.010	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.19	0.068	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Benzo[b]fluoranthene	0.83		0.037	0.0080	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Benzo[k]fluoranthene	0.47		0.037	0.011	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Benzo[a]pyrene	0.56		0.037	0.0072	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Indeno[1,2,3-cd]pyrene	0.27		0.037	0.0096	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Dibenz(a,h)anthracene	0.080		0.037	0.0071	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
Benzo[g,h,i]perylene	0.27		0.037	0.012	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 07:10	02/19/16 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	113	X	25 - 110	02/10/16 07:10	02/19/16 13:26	1
Phenol-d5	125	X	31 - 110	02/10/16 07:10	02/19/16 13:26	1
Nitrobenzene-d5	111		25 - 115	02/10/16 07:10	02/19/16 13:26	1
2-Fluorobiphenyl	117		25 - 119	02/10/16 07:10	02/19/16 13:26	1
2,4,6-Tribromophenol	120		35 - 137	02/10/16 07:10	02/19/16 13:26	1
Terphenyl-d14	165	X	36 - 134	02/10/16 07:10	02/19/16 13:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Arsenic	4.5		0.54	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Barium	81		0.54	0.099	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Beryllium	0.40		0.22	0.047	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Boron	7.3		2.7	0.38	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Cadmium	0.55		0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Calcium	61000	B	110	35	mg/Kg	☼	02/11/16 15:41	02/13/16 18:33	10
Chromium	14	B	0.54	0.093	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Cobalt	7.1		0.27	0.061	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Copper	37		0.54	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Iron	13000	B	11	4.2	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Lead	750		0.27	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Magnesium	33000		5.4	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Manganese	350		0.54	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Nickel	19		0.54	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Potassium	1000		27	4.4	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Selenium	0.27	J	0.54	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Sodium	1300		54	7.2	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Vanadium	18		0.27	0.079	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1
Zinc	140		1.1	0.34	mg/Kg	☼	02/11/16 15:41	02/13/16 14:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:29	1
Boron	0.66		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Date Collected: 02/05/16 10:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0059		0.0050	0.0020	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Lead	0.44		0.0075	0.0075	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Manganese	1.0		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Nickel	0.014	J	0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:29	1
Zinc	0.87	B	0.50	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:29	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.3		0.0075	0.0075	mg/L	-	02/11/16 15:25	02/13/16 02:44	1
Manganese	0.47		0.025	0.010	mg/L	-	02/11/16 15:25	02/13/16 02:44	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L	-	02/11/16 15:25	02/13/16 02:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:16	02/12/16 14:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:16	02/12/16 14:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 13:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0099	mg/Kg	☼	02/11/16 15:15	02/14/16 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU	-		02/11/16 21:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/06/16 08:25	02/16/16 04:34	1
Dibromofluoromethane	95		75 - 120	02/06/16 08:25	02/16/16 04:34	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/06/16 08:25	02/16/16 04:34	1
Toluene-d8 (Surr)	104		75 - 122	02/06/16 08:25	02/16/16 04:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Nitrobenzene	<0.035		0.035	0.0089	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,4-Dimethylphenol	<0.35		0.35	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Naphthalene	0.011	J	0.035	0.0055	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,4-Dichlorophenol	<0.35		0.35	0.085	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Hexachlorocyclopentadiene	<0.72		0.72	0.20	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2-Methylnaphthalene	<0.035		0.035	0.0066	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Phenanthrene	0.014	J	0.035	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Anthracene	<0.035		0.035	0.0060	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Pyrene	0.017	J	0.035	0.0071	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 91.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.035	0.0097	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Benzo[b]fluoranthene	<0.035		0.035	0.0077	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Benzo[k]fluoranthene	<0.035		0.035	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	111	X	25 - 110	02/10/16 07:10	02/16/16 22:12	1
Phenol-d5	97		31 - 110	02/10/16 07:10	02/16/16 22:12	1
Nitrobenzene-d5	99		25 - 115	02/10/16 07:10	02/16/16 22:12	1
2-Fluorobiphenyl	94		25 - 119	02/10/16 07:10	02/16/16 22:12	1
2,4,6-Tribromophenol	103		35 - 137	02/10/16 07:10	02/16/16 22:12	1
Terphenyl-d14	125		36 - 134	02/10/16 07:10	02/16/16 22:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Arsenic	5.5		0.53	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Barium	6.0		0.53	0.096	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Beryllium	0.20	J	0.21	0.046	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Boron	4.8		2.6	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Cadmium	<0.11		0.11	0.030	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Calcium	60000	B	110	34	mg/Kg	☼	02/11/16 15:41	02/13/16 18:38	10
Chromium	6.4	B	0.53	0.090	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Cobalt	4.9		0.26	0.059	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Copper	14		0.53	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Iron	7100	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Lead	8.5		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Magnesium	30000		5.3	2.1	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Manganese	300		0.53	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Nickel	11		0.53	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Potassium	700		26	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Selenium	0.55		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Sodium	510		53	6.9	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Thallium	0.27	J	0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Vanadium	11		0.26	0.077	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1
Zinc	45		1.1	0.33	mg/Kg	☼	02/11/16 15:41	02/13/16 14:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:35	1
Boron	0.57		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 91.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 14:35	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:35	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:35	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 14:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 14:35	1
Manganese	1.3		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:35	1
Nickel	0.017	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:35	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 14:35	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:35	1
Zinc	0.19	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 14:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 02:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0094	mg/Kg	☼	02/11/16 15:15	02/14/16 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			02/11/16 21:52	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Date Collected: 02/05/16 10:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.051		0.015	0.0029	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Benzene	<0.0038		0.0038	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Bromodichloromethane	<0.0038		0.0038	0.00063	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
2-Butanone (MEK)	0.0052		0.0038	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Carbon tetrachloride	<0.0038		0.0038	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Chlorobenzene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Chloroform	<0.0038		0.0038	0.00073	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Chloromethane	<0.0038		0.0038	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Dibromochloromethane	<0.0038		0.0038	0.00043	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,1-Dichloroethane	<0.0038		0.0038	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,2-Dichloropropane	<0.0038		0.0038	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Ethylbenzene	<0.0038		0.0038	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Methylene Chloride	<0.0038		0.0038	0.0028	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00077	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Styrene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Tetrachloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Vinyl chloride	<0.0038		0.0038	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/06/16 08:25	02/16/16 04:59	1
Dibromofluoromethane	98		75 - 120	02/06/16 08:25	02/16/16 04:59	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/06/16 08:25	02/16/16 04:59	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 04:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Date Collected: 02/05/16 10:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Acenaphthene	0.0090	J	0.039	0.0071	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Phenanthrene	0.044		0.039	0.0055	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Pyrene	0.015	J	0.039	0.0078	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Date Collected: 02/05/16 10:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.039	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	104		25 - 110	02/10/16 07:10	02/16/16 22:41	1
Phenol-d5	102		31 - 110	02/10/16 07:10	02/16/16 22:41	1
Nitrobenzene-d5	102		25 - 115	02/10/16 07:10	02/16/16 22:41	1
2-Fluorobiphenyl	91		25 - 119	02/10/16 07:10	02/16/16 22:41	1
2,4,6-Tribromophenol	85		35 - 137	02/10/16 07:10	02/16/16 22:41	1
Terphenyl-d14	121		36 - 134	02/10/16 07:10	02/16/16 22:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Arsenic	6.3		0.54	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Barium	38		0.54	0.098	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Beryllium	0.60		0.21	0.047	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Boron	11		2.7	0.38	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Calcium	64000	B	110	35	mg/Kg	☼	02/11/16 15:41	02/13/16 18:42	10
Chromium	16	B	0.54	0.092	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Cobalt	12		0.27	0.061	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Copper	24		0.54	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Iron	18000	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Lead	13		0.27	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Magnesium	28000		5.4	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Manganese	360		0.54	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Nickel	31		0.54	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Potassium	2300		27	4.4	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Sodium	670		54	7.1	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Thallium	0.65		0.54	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Vanadium	18		0.27	0.078	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1
Zinc	46		1.1	0.34	mg/Kg	☼	02/11/16 15:41	02/13/16 14:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:42	1
Boron	0.066	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Date Collected: 02/05/16 10:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Cobalt	0.018	J	0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Lead	0.029		0.0075	0.0075	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Manganese	2.4		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Nickel	0.037		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:42	1
Zinc	0.28	J B	0.50	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:42	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0077		0.0075	0.0075	mg/L	-	02/11/16 15:25	02/13/16 02:57	1
Manganese	0.068		0.025	0.010	mg/L	-	02/11/16 15:25	02/13/16 02:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:16	02/12/16 14:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:16	02/12/16 14:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 13:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU	-		02/11/16 22:06	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Date Collected: 02/05/16 11:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/06/16 08:25	02/16/16 05:25	1
Dibromofluoromethane	98		75 - 120	02/06/16 08:25	02/16/16 05:25	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/06/16 08:25	02/16/16 05:25	1
Toluene-d8 (Surr)	106		75 - 122	02/06/16 08:25	02/16/16 05:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Date Collected: 02/05/16 11:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Naphthalene	0.0059	J	0.036	0.0056	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Acenaphthene	0.0097	J	0.036	0.0066	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Fluorene	0.012	J	0.036	0.0052	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Phenanthrene	0.12		0.036	0.0051	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Anthracene	0.026	J	0.036	0.0061	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Fluoranthene	0.17		0.036	0.0068	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Pyrene	0.20		0.036	0.0073	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Benzo[a]anthracene	0.072		0.036	0.0049	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Date Collected: 02/05/16 11:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.089		0.036	0.010	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Benzo[b]fluoranthene	0.14		0.036	0.0079	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Benzo[k]fluoranthene	0.061		0.036	0.011	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Benzo[a]pyrene	0.074		0.036	0.0071	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Indeno[1,2,3-cd]pyrene	0.041		0.036	0.0095	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0071	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
Benzo[g,h,i]perylene	0.038		0.036	0.012	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/17/16 17:08	02/18/16 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	02/17/16 17:08	02/18/16 16:01	1
Phenol-d5	59		31 - 110	02/17/16 17:08	02/18/16 16:01	1
Nitrobenzene-d5	61		25 - 115	02/17/16 17:08	02/18/16 16:01	1
2-Fluorobiphenyl	66		25 - 119	02/17/16 17:08	02/18/16 16:01	1
2,4,6-Tribromophenol	86		35 - 137	02/17/16 17:08	02/18/16 16:01	1
Terphenyl-d14	133		36 - 134	02/17/16 17:08	02/18/16 16:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Arsenic	4.0		0.55	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Barium	71		0.55	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Beryllium	0.44		0.22	0.048	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Boron	5.6		2.8	0.39	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Cadmium	0.32		0.11	0.032	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Calcium	20000	B	11	3.6	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Chromium	17	B	0.55	0.095	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Cobalt	8.2		0.28	0.062	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Copper	34		0.55	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Iron	16000	B	11	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Lead	230		0.28	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Magnesium	13000		5.5	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Manganese	310		0.55	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Nickel	20		0.55	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Potassium	860		28	4.5	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Selenium	0.45	J	0.55	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Sodium	1000		55	7.3	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Vanadium	23		0.28	0.081	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1
Zinc	110		1.1	0.35	mg/Kg	☼	02/11/16 15:41	02/13/16 15:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:49	1
Boron	0.12	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Date Collected: 02/05/16 11:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 88.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0038	J	0.0050	0.0020	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Cobalt	0.027		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Lead	0.11		0.0075	0.0075	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Manganese	5.4		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Nickel	0.031		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 14:49	1
Zinc	0.36	J B	0.50	0.020	mg/L	-	02/11/16 15:16	02/13/16 14:49	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0091		0.0075	0.0075	mg/L	-	02/11/16 15:25	02/13/16 03:04	1
Manganese	0.011	J	0.025	0.010	mg/L	-	02/11/16 15:25	02/13/16 03:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:16	02/12/16 14:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:16	02/12/16 14:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 13:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0095	mg/Kg	☼	02/11/16 15:15	02/14/16 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.63		0.200	0.200	SU	-		02/11/16 22:13	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 92.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0027	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Benzene	<0.0035		0.0035	0.00078	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Bromodichloromethane	<0.0035		0.0035	0.00060	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Bromoform	<0.0035		0.0035	0.00072	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
2-Butanone (MEK)	<0.0035		0.0035	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Carbon disulfide	<0.0035		0.0035	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Carbon tetrachloride	<0.0035		0.0035	0.00076	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Chlorobenzene	<0.0035		0.0035	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Chloroethane	<0.0035	*	0.0035	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Chloroform	<0.0035		0.0035	0.00069	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Chloromethane	<0.0035		0.0035	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00072	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Dibromochloromethane	<0.0035		0.0035	0.00041	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,1-Dichloroethane	<0.0035		0.0035	0.00073	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,2-Dichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,1-Dichloroethene	<0.0035		0.0035	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,2-Dichloropropane	<0.0035		0.0035	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,3-Dichloropropane, Total	<0.0035		0.0035	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Ethylbenzene	<0.0035		0.0035	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Methylene Chloride	<0.0035		0.0035	0.0027	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00073	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Styrene	<0.0035		0.0035	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.00056	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Tetrachloroethene	<0.0035		0.0035	0.00073	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Toluene	<0.0035		0.0035	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00068	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Trichloroethene	<0.0035		0.0035	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Vinyl acetate	<0.0035		0.0035	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Vinyl chloride	<0.0035		0.0035	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1
Xylenes, Total	<0.0071		0.0071	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/06/16 08:25	02/16/16 05:50	1
Dibromofluoromethane	95		75 - 120	02/06/16 08:25	02/16/16 05:50	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/16 08:25	02/16/16 05:50	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 05:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.077	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,4,5-Trichlorophenol	<0.34		0.34	0.079	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2-Nitrophenol	<0.34		0.34	0.082	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Acenaphthene	<0.034		0.034	0.0062	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Fluorene	<0.034		0.034	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Hexachlorobenzene	<0.070		0.070	0.0080	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Pentachlorophenol	<0.70		0.70	0.55	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Phenanthrene	0.013	J	0.034	0.0048	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Anthracene	<0.034		0.034	0.0058	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Carbazole	<0.17		0.17	0.086	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Di-n-butyl phthalate	<0.17		0.17	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Fluoranthene	<0.034		0.034	0.0064	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Pyrene	0.0084	J	0.034	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Butyl benzyl phthalate	<0.17		0.17	0.066	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.034	0.0094	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Benzo[a]pyrene	<0.034		0.034	0.0067	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0089	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0067	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
3 & 4 Methylphenol	<0.17		0.17	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		25 - 110				02/10/16 07:10	02/16/16 18:20	1
Phenol-d5	107		31 - 110				02/10/16 07:10	02/16/16 18:20	1
Nitrobenzene-d5	97		25 - 115				02/10/16 07:10	02/16/16 18:20	1
2-Fluorobiphenyl	91		25 - 119				02/10/16 07:10	02/16/16 18:20	1
2,4,6-Tribromophenol	94		35 - 137				02/10/16 07:10	02/16/16 18:20	1
Terphenyl-d14	103		36 - 134				02/10/16 07:10	02/16/16 18:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Arsenic	6.9		0.52	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Barium	41		0.52	0.094	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Beryllium	0.51		0.21	0.045	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Boron	11		2.6	0.36	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Cadmium	0.044	J	0.10	0.030	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Calcium	70000	B	100	33	mg/Kg	☼	02/11/16 15:41	02/13/16 18:50	10
Chromium	14	B	0.52	0.089	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Cobalt	12		0.26	0.058	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Copper	21		0.52	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Iron	15000	B	10	4.0	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Lead	12		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Magnesium	31000		5.2	2.1	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Manganese	360		0.52	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Nickel	28		0.52	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Potassium	2100		26	4.2	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Sodium	600		52	6.8	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Thallium	0.41	J	0.52	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Vanadium	17		0.26	0.075	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1
Zinc	51		1.0	0.33	mg/Kg	☼	02/11/16 15:41	02/13/16 15:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 14:55	1
Boron	0.67		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 14:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 92.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 14:55	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:55	1
Cobalt	0.034		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:55	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 14:55	1
Lead	0.0077		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 14:55	1
Manganese	2.0		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:55	1
Nickel	0.072		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 14:55	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 14:55	1
Zinc	0.13	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 14:55	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:25	02/13/16 03:11	1
Manganese	0.11		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 03:11	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0088	mg/Kg	☼	02/11/16 15:15	02/14/16 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/11/16 22:20	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/06/16 08:25	02/16/16 06:15	1
Dibromofluoromethane	96		75 - 120	02/06/16 08:25	02/16/16 06:15	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/06/16 08:25	02/16/16 06:15	1
Toluene-d8 (Surr)	105		75 - 122	02/06/16 08:25	02/16/16 06:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Naphthalene	0.013	J	0.035	0.0054	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2-Methylnaphthalene	<0.035		0.035	0.0064	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,4-Dinitrophenol	<0.70		0.70	0.62	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Acenaphthylene	0.012	J	0.035	0.0046	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Acenaphthene	0.021	J	0.035	0.0063	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Fluorene	0.036		0.035	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Phenanthrene	0.32		0.035	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Anthracene	0.069		0.035	0.0058	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Fluoranthene	0.45		0.035	0.0065	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Pyrene	0.32		0.035	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Benzo[a]anthracene	0.19		0.035	0.0047	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.20		0.035	0.0095	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Benzo[b]fluoranthene	0.25		0.035	0.0075	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Benzo[k]fluoranthene	0.086		0.035	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Benzo[a]pyrene	0.16		0.035	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Indeno[1,2,3-cd]pyrene	0.073		0.035	0.0091	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Dibenz(a,h)anthracene	0.026	J	0.035	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
Benzo[g,h,i]perylene	0.074		0.035	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	107		25 - 110	02/10/16 07:10	02/16/16 18:49	1
Phenol-d5	111	X	31 - 110	02/10/16 07:10	02/16/16 18:49	1
Nitrobenzene-d5	99		25 - 115	02/10/16 07:10	02/16/16 18:49	1
2-Fluorobiphenyl	94		25 - 119	02/10/16 07:10	02/16/16 18:49	1
2,4,6-Tribromophenol	100		35 - 137	02/10/16 07:10	02/16/16 18:49	1
Terphenyl-d14	105		36 - 134	02/10/16 07:10	02/16/16 18:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Arsenic	4.0		0.53	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Barium	36		0.53	0.096	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Beryllium	0.37		0.21	0.045	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Boron	4.3		2.6	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Cadmium	0.062	J	0.11	0.030	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Calcium	40000	B	110	34	mg/Kg	☼	02/11/16 15:41	02/13/16 18:54	10
Chromium	11	B	0.53	0.090	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Cobalt	5.3		0.26	0.059	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Copper	18		0.53	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Iron	12000	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Lead	66		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Magnesium	19000		5.3	2.1	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Manganese	360		0.53	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Nickel	13		0.53	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Potassium	750		26	4.3	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Sodium	510		53	6.9	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Vanadium	20		0.26	0.077	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1
Zinc	53		1.1	0.33	mg/Kg	☼	02/11/16 15:41	02/13/16 15:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 15:02	1
Boron	0.59		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 15:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:02	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:02	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 15:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 15:02	1
Manganese	2.8		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:02	1
Nickel	0.016	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 15:02	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:02	1
Zinc	0.12	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 15:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 03:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.017	0.0091	mg/Kg	☼	02/11/16 15:15	02/14/16 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			02/11/16 22:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Date Collected: 02/05/16 12:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Bromodichloromethane	<0.0039		0.0039	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Chlorobenzene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Chloroethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Chloroform	<0.0039		0.0039	0.00075	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Dibromochloromethane	<0.0039		0.0039	0.00044	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Styrene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Tetrachloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Toluene	<0.0039		0.0039	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 06:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/06/16 08:25	02/16/16 06:40	1
Dibromofluoromethane	92		75 - 120	02/06/16 08:25	02/16/16 06:40	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/06/16 08:25	02/16/16 06:40	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 06:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Date Collected: 02/05/16 12:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Phenanthrene	0.0090	J	0.039	0.0054	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Date Collected: 02/05/16 12:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
Benzo[g,h,i]perylene	<0.039		0.039	0.012	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/17/16 17:08	02/18/16 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/17/16 17:08	02/18/16 15:32	1
Phenol-d5	80		31 - 110	02/17/16 17:08	02/18/16 15:32	1
Nitrobenzene-d5	75		25 - 115	02/17/16 17:08	02/18/16 15:32	1
2-Fluorobiphenyl	75		25 - 119	02/17/16 17:08	02/18/16 15:32	1
2,4,6-Tribromophenol	66		35 - 137	02/17/16 17:08	02/18/16 15:32	1
Terphenyl-d14	92		36 - 134	02/17/16 17:08	02/18/16 15:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Arsenic	5.4		0.58	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Barium	27		0.58	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Beryllium	0.46		0.23	0.050	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Boron	11		2.9	0.41	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Cadmium	0.071	J	0.12	0.034	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Calcium	79000	B	120	37	mg/Kg	☼	02/11/16 15:41	02/13/16 19:06	10
Chromium	14	B	0.58	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Cobalt	9.7		0.29	0.066	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Copper	21		0.58	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Iron	14000	B	12	4.5	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Lead	11		0.29	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Magnesium	37000		5.8	2.4	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Manganese	410		0.58	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Nickel	23		0.58	0.16	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Potassium	2100		29	4.7	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Selenium	0.41	J	0.58	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Sodium	460		58	7.7	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Vanadium	17		0.29	0.085	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1
Zinc	47		1.2	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 15:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 15:25	1
Boron	0.095	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Date Collected: 02/05/16 12:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 15:25	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:25	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:25	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 15:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 15:25	1
Manganese	2.5		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:25	1
Nickel	0.039		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 15:25	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:25	1
Zinc	0.10	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 15:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.057		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 03:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			02/11/16 22:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Chloroethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,3-Dichloropropene, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/06/16 08:25	02/16/16 07:06	1
Dibromofluoromethane	95		75 - 120	02/06/16 08:25	02/16/16 07:06	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/06/16 08:25	02/16/16 07:06	1
Toluene-d8 (Surr)	106		75 - 122	02/06/16 08:25	02/16/16 07:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Acenaphthene	<0.035		0.035	0.0064	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Fluorene	<0.035		0.035	0.0050	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Fluoranthene	<0.035		0.035	0.0066	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Benzo[a]anthracene	<0.035		0.035	0.0048	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0097	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Benzo[a]pyrene	<0.035		0.035	0.0069	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0092	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	106		25 - 110	02/10/16 07:10	02/16/16 16:24	1
Phenol-d5	108		31 - 110	02/10/16 07:10	02/16/16 16:24	1
Nitrobenzene-d5	97		25 - 115	02/10/16 07:10	02/16/16 16:24	1
2-Fluorobiphenyl	89		25 - 119	02/10/16 07:10	02/16/16 16:24	1
2,4,6-Tribromophenol	93		35 - 137	02/10/16 07:10	02/16/16 16:24	1
Terphenyl-d14	100		36 - 134	02/10/16 07:10	02/16/16 16:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Arsenic	3.7		0.51	0.24	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Barium	23		0.51	0.094	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Beryllium	0.36		0.20	0.044	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Boron	4.0		2.6	0.36	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Cadmium	0.066	J	0.10	0.030	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Calcium	15000	B	10	3.3	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Chromium	11	B	0.51	0.088	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Cobalt	7.2		0.26	0.058	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Copper	21		0.51	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Iron	12000	B	10	3.9	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Lead	13		0.26	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Magnesium	10000		5.1	2.1	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Manganese	400		0.51	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Nickel	17		0.51	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Potassium	760		26	4.2	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Sodium	1100		51	6.7	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Vanadium	17		0.26	0.075	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1
Zinc	64		1.0	0.32	mg/Kg	☼	02/11/16 15:41	02/13/16 15:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 15:32	1
Boron	0.086	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Manganese	1.3		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Nickel	0.011	J	0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:16	02/13/16 15:32	1
Zinc	0.20	J B	0.50	0.020	mg/L	-	02/11/16 15:16	02/13/16 15:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1		0.025	0.010	mg/L	-	02/11/16 15:25	02/13/16 03:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:16	02/12/16 14:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:16	02/12/16 14:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 13:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.016	0.0085	mg/Kg	☼	02/11/16 15:15	02/14/16 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU	-		02/11/16 22:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Date Collected: 02/05/16 12:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/06/16 08:25	02/16/16 07:31	1
Dibromofluoromethane	95		75 - 120	02/06/16 08:25	02/16/16 07:31	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/06/16 08:25	02/16/16 07:31	1
Toluene-d8 (Surr)	103		75 - 122	02/06/16 08:25	02/16/16 07:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Date Collected: 02/05/16 12:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Phenanthrene	0.054		0.039	0.0055	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Pyrene	0.020 J		0.039	0.0078	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Benzo[a]anthracene	0.014 J		0.039	0.0053	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Date Collected: 02/05/16 12:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.039	0.011	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 07:10	02/17/16 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	110		25 - 110	02/10/16 07:10	02/17/16 00:08	1
Phenol-d5	112	X	31 - 110	02/10/16 07:10	02/17/16 00:08	1
Nitrobenzene-d5	99		25 - 115	02/10/16 07:10	02/17/16 00:08	1
2-Fluorobiphenyl	91		25 - 119	02/10/16 07:10	02/17/16 00:08	1
2,4,6-Tribromophenol	81		35 - 137	02/10/16 07:10	02/17/16 00:08	1
Terphenyl-d14	145	X	36 - 134	02/10/16 07:10	02/17/16 00:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Arsenic	9.0		0.59	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Barium	46		0.59	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Beryllium	0.66		0.24	0.051	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Boron	15		3.0	0.42	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Calcium	77000	B	120	38	mg/Kg	☼	02/11/16 15:41	02/13/16 19:15	10
Chromium	18	B	0.59	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Cobalt	15		0.30	0.067	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Copper	25		0.59	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Iron	19000	B	12	4.6	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Lead	14		0.30	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Magnesium	34000		5.9	2.4	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Manganese	450		0.59	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Nickel	34		0.59	0.16	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Potassium	3000		30	4.9	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Sodium	450		59	7.8	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Thallium	0.49	J	0.59	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Vanadium	20		0.30	0.087	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1
Zinc	51		1.2	0.38	mg/Kg	☼	02/11/16 15:41	02/13/16 15:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 15:38	1
Boron	0.57		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Date Collected: 02/05/16 12:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 15:38	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:38	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:38	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 15:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 15:38	1
Manganese	2.2		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:38	1
Nickel	0.036		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:38	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 15:38	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:38	1
Zinc	0.077	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 15:38	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.079		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 03:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.011	mg/Kg	☼	02/11/16 15:15	02/14/16 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64		0.200	0.200	SU			02/11/16 22:48	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Date Collected: 02/05/16 13:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.023		0.017	0.0033	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/06/16 08:25	02/16/16 07:57	1
Dibromofluoromethane	98		75 - 120	02/06/16 08:25	02/16/16 07:57	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	02/06/16 08:25	02/16/16 07:57	1
Toluene-d8 (Surr)	100		75 - 122	02/06/16 08:25	02/16/16 07:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Date Collected: 02/05/16 13:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Phenanthrene	<0.039		0.039	0.0054	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Date Collected: 02/05/16 13:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		25 - 110	02/10/16 07:10	02/16/16 19:40	1
Phenol-d5	96		31 - 110	02/10/16 07:10	02/16/16 19:40	1
Nitrobenzene-d5	89		25 - 115	02/10/16 07:10	02/16/16 19:40	1
2-Fluorobiphenyl	89		25 - 119	02/10/16 07:10	02/16/16 19:40	1
2,4,6-Tribromophenol	107		35 - 137	02/10/16 07:10	02/16/16 19:40	1
Terphenyl-d14	106		36 - 134	02/10/16 07:10	02/16/16 19:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Arsenic	3.7		0.53	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Barium	72		0.53	0.098	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Beryllium	0.45		0.21	0.046	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Boron	3.5		2.7	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Cadmium	0.053	J	0.11	0.031	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Calcium	1500	B	11	3.4	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Chromium	15	B	0.53	0.092	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Cobalt	9.4		0.27	0.060	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Copper	11		0.53	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Iron	16000	B	11	4.1	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Lead	14		0.27	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Magnesium	2400		5.3	2.2	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Manganese	300		0.53	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Nickel	13		0.53	0.14	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Potassium	1000		27	4.4	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Sodium	1600		53	7.1	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Vanadium	23		0.27	0.078	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1
Zinc	52		1.1	0.34	mg/Kg	☼	02/11/16 15:41	02/13/16 15:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.20	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 15:45	1
Boron	0.73		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Date Collected: 02/05/16 13:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 15:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:45	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:45	1
Iron	0.24	J	0.40	0.20	mg/L		02/11/16 15:16	02/13/16 15:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 15:45	1
Manganese	4.0		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:45	1
Nickel	0.012	J	0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 15:45	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:45	1
Zinc	0.43	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 15:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.1		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 04:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0095	mg/Kg	☼	02/11/16 15:15	02/14/16 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			02/11/16 22:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Bromodichloromethane	<0.0045		0.0045	0.00075	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Carbon tetrachloride	<0.0045		0.0045	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Chloroethane	<0.0045	*	0.0045	0.0019	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Dibromochloromethane	<0.0045		0.0045	0.00051	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Toluene	<0.0045		0.0045	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	02/06/16 08:25	02/16/16 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/06/16 08:25	02/16/16 08:23	1
Dibromofluoromethane	98		75 - 120	02/06/16 08:25	02/16/16 08:23	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/06/16 08:25	02/16/16 08:23	1
Toluene-d8 (Surr)	104		75 - 122	02/06/16 08:25	02/16/16 08:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 07:10	02/16/16 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		25 - 110	02/10/16 07:10	02/16/16 20:10	1
Phenol-d5	103		31 - 110	02/10/16 07:10	02/16/16 20:10	1
Nitrobenzene-d5	96		25 - 115	02/10/16 07:10	02/16/16 20:10	1
2-Fluorobiphenyl	94		25 - 119	02/10/16 07:10	02/16/16 20:10	1
2,4,6-Tribromophenol	110		35 - 137	02/10/16 07:10	02/16/16 20:10	1
Terphenyl-d14	116		36 - 134	02/10/16 07:10	02/16/16 20:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Arsenic	6.4		0.59	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Barium	83		0.59	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Beryllium	0.63		0.24	0.051	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Boron	9.9		3.0	0.41	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Cadmium	0.16		0.12	0.034	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Calcium	62000	B	120	38	mg/Kg	☼	02/11/16 15:41	02/13/16 19:23	10
Chromium	17	B	0.59	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Cobalt	22		0.30	0.067	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Copper	26		0.59	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Iron	21000	B	12	4.6	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Lead	13		0.30	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Magnesium	41000		59	24	mg/Kg	☼	02/11/16 15:41	02/13/16 19:23	10
Manganese	1800		5.9	1.2	mg/Kg	☼	02/11/16 15:41	02/13/16 19:23	10
Nickel	41		0.59	0.16	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Potassium	2300		30	4.8	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Selenium	0.35	J	0.59	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Sodium	1700		59	7.8	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Thallium	0.30	J	0.59	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Vanadium	24		0.30	0.086	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1
Zinc	74		1.2	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 15:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 15:52	1
Boron	0.59		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 15:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 15:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:52	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:52	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 15:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 15:52	1
Manganese	0.51		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:52	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 15:52	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 15:52	1
Zinc	0.25	J B	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 15:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.4		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 04:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 14:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 14:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			02/11/16 23:02	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-G03

Lab Sample ID: 500-107297-21

Date Collected: 02/05/16 13:30

Matrix: Water

Date Received: 02/05/16 16:55

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			02/16/16 20:44	1
Benzene	<0.00050		0.00050	0.00015	mg/L			02/16/16 20:44	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			02/16/16 20:44	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			02/16/16 20:44	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			02/16/16 20:44	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			02/16/16 20:44	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			02/16/16 20:44	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			02/16/16 20:44	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			02/16/16 20:44	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			02/16/16 20:44	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			02/16/16 20:44	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			02/16/16 20:44	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			02/16/16 20:44	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			02/16/16 20:44	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			02/16/16 20:44	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			02/16/16 20:44	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			02/16/16 20:44	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			02/16/16 20:44	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			02/16/16 20:44	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			02/16/16 20:44	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			02/16/16 20:44	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			02/16/16 20:44	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			02/16/16 20:44	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			02/16/16 20:44	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			02/16/16 20:44	1
Styrene	<0.0010		0.0010	0.00039	mg/L			02/16/16 20:44	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			02/16/16 20:44	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			02/16/16 20:44	1
Toluene	<0.00050		0.00050	0.00015	mg/L			02/16/16 20:44	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			02/16/16 20:44	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			02/16/16 20:44	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			02/16/16 20:44	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			02/16/16 20:44	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			02/16/16 20:44	1
Vinyl acetate	<0.0020 *		0.0020	0.00091	mg/L			02/16/16 20:44	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			02/16/16 20:44	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			02/16/16 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 120		02/16/16 20:44	1
Dibromofluoromethane	93		75 - 120		02/16/16 20:44	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 125		02/16/16 20:44	1
Toluene-d8 (Surr)	103		75 - 120		02/16/16 20:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0018		0.0018	0.00022	mg/L		02/08/16 18:05	02/17/16 19:26	1
1,2-Dichlorobenzene	<0.0018		0.0018	0.00023	mg/L		02/08/16 18:05	02/17/16 19:26	1
1,3-Dichlorobenzene	<0.0018		0.0018	0.00019	mg/L		02/08/16 18:05	02/17/16 19:26	1
1,4-Dichlorobenzene	<0.0018		0.0018	0.00019	mg/L		02/08/16 18:05	02/17/16 19:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-G03

Lab Sample ID: 500-107297-21

Date Collected: 02/05/16 13:30

Matrix: Water

Date Received: 02/05/16 16:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.0018		0.0018	0.00035	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,4,5-Trichlorophenol	<0.0092		0.0092	0.0024	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,4,6-Trichlorophenol	<0.0046		0.0046	0.00066	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,4-Dichlorophenol	<0.0092		0.0092	0.0024	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,4-Dimethylphenol	<0.0092	*	0.0092	0.0017	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,4-Dinitrophenol	<0.018	*	0.018	0.0079	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,4-Dinitrotoluene	<0.00092		0.00092	0.00023	mg/L		02/08/16 18:05	02/17/16 19:26	1
2,6-Dinitrotoluene	<0.00046		0.00046	0.000068	mg/L		02/08/16 18:05	02/17/16 19:26	1
2-Chloronaphthalene	<0.0018		0.0018	0.00022	mg/L		02/08/16 18:05	02/17/16 19:26	1
2-Chlorophenol	<0.0046		0.0046	0.00051	mg/L		02/08/16 18:05	02/17/16 19:26	1
2-Methylnaphthalene	<0.00046		0.00046	0.000060	mg/L		02/08/16 18:05	02/17/16 19:26	1
2-Methylphenol	<0.0018	*	0.0018	0.00028	mg/L		02/08/16 18:05	02/17/16 19:26	1
2-Nitroaniline	<0.0046		0.0046	0.0012	mg/L		02/08/16 18:05	02/17/16 19:26	1
2-Nitrophenol	<0.0092		0.0092	0.0023	mg/L		02/08/16 18:05	02/17/16 19:26	1
3 & 4 Methylphenol	<0.0018		0.0018	0.00041	mg/L		02/08/16 18:05	02/17/16 19:26	1
3,3'-Dichlorobenzidine	<0.0046		0.0046	0.0016	mg/L		02/08/16 18:05	02/17/16 19:26	1
3-Nitroaniline	<0.0092		0.0092	0.0016	mg/L		02/08/16 18:05	02/17/16 19:26	1
4,6-Dinitro-2-methylphenol	<0.018		0.018	0.0054	mg/L		02/08/16 18:05	02/17/16 19:26	1
4-Bromophenyl phenyl ether	<0.0046		0.0046	0.00050	mg/L		02/08/16 18:05	02/17/16 19:26	1
4-Chloro-3-methylphenol	<0.0092		0.0092	0.0021	mg/L		02/08/16 18:05	02/17/16 19:26	1
4-Chloroaniline	<0.0092		0.0092	0.0019	mg/L		02/08/16 18:05	02/17/16 19:26	1
4-Chlorophenyl phenyl ether	<0.0046		0.0046	0.00058	mg/L		02/08/16 18:05	02/17/16 19:26	1
4-Nitroaniline	<0.0092		0.0092	0.0015	mg/L		02/08/16 18:05	02/17/16 19:26	1
4-Nitrophenol	<0.018		0.018	0.0068	mg/L		02/08/16 18:05	02/17/16 19:26	1
Acenaphthene	<0.00092		0.00092	0.00028	mg/L		02/08/16 18:05	02/17/16 19:26	1
Acenaphthylene	<0.00092		0.00092	0.00025	mg/L		02/08/16 18:05	02/17/16 19:26	1
Anthracene	<0.00092		0.00092	0.00031	mg/L		02/08/16 18:05	02/17/16 19:26	1
Benzo[a]anthracene	<0.00015		0.00015	0.000052	mg/L		02/08/16 18:05	02/17/16 19:26	1
Benzo[a]pyrene	<0.00018		0.00018	0.000091	mg/L		02/08/16 18:05	02/17/16 19:26	1
Benzo[b]fluoranthene	<0.00018		0.00018	0.000074	mg/L		02/08/16 18:05	02/17/16 19:26	1
Benzo[g,h,i]perylene	<0.00092	*	0.00092	0.00035	mg/L		02/08/16 18:05	02/17/16 19:26	1
Benzo[k]fluoranthene	<0.00018		0.00018	0.000059	mg/L		02/08/16 18:05	02/17/16 19:26	1
Bis(2-chloroethoxy)methane	<0.0018		0.0018	0.00026	mg/L		02/08/16 18:05	02/17/16 19:26	1
Bis(2-chloroethyl)ether	<0.0018		0.0018	0.00027	mg/L		02/08/16 18:05	02/17/16 19:26	1
Bis(2-ethylhexyl) phthalate	0.0033	J	0.0092	0.0016	mg/L		02/08/16 18:05	02/17/16 19:26	1
Butyl benzyl phthalate	<0.0018		0.0018	0.00044	mg/L		02/08/16 18:05	02/17/16 19:26	1
Carbazole	<0.0046		0.0046	0.00033	mg/L		02/08/16 18:05	02/17/16 19:26	1
Chrysene	<0.00046		0.00046	0.000063	mg/L		02/08/16 18:05	02/17/16 19:26	1
Dibenz(a,h)anthracene	<0.00028		0.00028	0.000047	mg/L		02/08/16 18:05	02/17/16 19:26	1
Dibenzofuran	<0.0018		0.0018	0.00024	mg/L		02/08/16 18:05	02/17/16 19:26	1
Diethyl phthalate	<0.0018		0.0018	0.00033	mg/L		02/08/16 18:05	02/17/16 19:26	1
Dimethyl phthalate	<0.0018		0.0018	0.00029	mg/L		02/08/16 18:05	02/17/16 19:26	1
Di-n-butyl phthalate	0.0015	J B	0.0046	0.00067	mg/L		02/08/16 18:05	02/17/16 19:26	1
Di-n-octyl phthalate	<0.0092		0.0092	0.00097	mg/L		02/08/16 18:05	02/17/16 19:26	1
Fluoranthene	<0.00092		0.00092	0.00042	mg/L		02/08/16 18:05	02/17/16 19:26	1
Fluorene	<0.00092		0.00092	0.00022	mg/L		02/08/16 18:05	02/17/16 19:26	1
Hexachlorobenzene	<0.00046		0.00046	0.000073	mg/L		02/08/16 18:05	02/17/16 19:26	1
Hexachlorobutadiene	<0.0046		0.0046	0.00047	mg/L		02/08/16 18:05	02/17/16 19:26	1
Hexachlorocyclopentadiene	<0.018	*	0.018	0.0059	mg/L		02/08/16 18:05	02/17/16 19:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-G03

Lab Sample ID: 500-107297-21

Date Collected: 02/05/16 13:30

Matrix: Water

Date Received: 02/05/16 16:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.0046		0.0046	0.00055	mg/L		02/08/16 18:05	02/17/16 19:26	1
Indeno[1,2,3-cd]pyrene	<0.00018	*	0.00018	0.000069	mg/L		02/08/16 18:05	02/17/16 19:26	1
Isophorone	<0.0018		0.0018	0.00035	mg/L		02/08/16 18:05	02/17/16 19:26	1
Naphthalene	<0.00092		0.00092	0.00028	mg/L		02/08/16 18:05	02/17/16 19:26	1
Nitrobenzene	<0.00092		0.00092	0.00041	mg/L		02/08/16 18:05	02/17/16 19:26	1
N-Nitrosodi-n-propylamine	<0.00046		0.00046	0.00014	mg/L		02/08/16 18:05	02/17/16 19:26	1
N-Nitrosodiphenylamine	<0.00092		0.00092	0.00034	mg/L		02/08/16 18:05	02/17/16 19:26	1
Pentachlorophenol	<0.018		0.018	0.0036	mg/L		02/08/16 18:05	02/17/16 19:26	1
Phenanthrene	<0.00092		0.00092	0.00028	mg/L		02/08/16 18:05	02/17/16 19:26	1
Phenol	<0.0046	*	0.0046	0.00062	mg/L		02/08/16 18:05	02/17/16 19:26	1
Pyrene	<0.00092		0.00092	0.00039	mg/L		02/08/16 18:05	02/17/16 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		53 - 150	02/08/16 18:05	02/17/16 19:26	1
2-Fluorobiphenyl	61		41 - 132	02/08/16 18:05	02/17/16 19:26	1
2-Fluorophenol	42		32 - 110	02/08/16 18:05	02/17/16 19:26	1
Nitrobenzene-d5	58		47 - 134	02/08/16 18:05	02/17/16 19:26	1
Phenol-d5	41		25 - 100	02/08/16 18:05	02/17/16 19:26	1
Terphenyl-d14	156	X	59 - 150	02/08/16 18:05	02/17/16 19:26	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0073	F1	0.0010	0.00044	mg/L		02/09/16 08:37	02/12/16 20:09	1
Barium	0.067		0.0025	0.00084	mg/L		02/09/16 08:37	02/09/16 19:00	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		02/09/16 08:37	02/09/16 19:00	1
Boron	0.17		0.050	0.025	mg/L		02/09/16 08:37	02/09/16 19:00	1
Cadmium	0.00038	J	0.00050	0.00019	mg/L		02/09/16 08:37	02/09/16 19:00	1
Calcium	460		1.0	0.53	mg/L		02/09/16 08:37	02/12/16 20:29	5
Chromium	0.0082		0.0050	0.00061	mg/L		02/09/16 08:37	02/09/16 19:00	1
Cobalt	0.040		0.0010	0.00019	mg/L		02/09/16 08:37	02/09/16 19:00	1
Copper	0.022		0.0020	0.00096	mg/L		02/09/16 08:37	02/09/16 19:00	1
Iron	18		0.10	0.026	mg/L		02/09/16 08:37	02/09/16 19:00	1
Lead	0.0067		0.00050	0.00014	mg/L		02/09/16 08:37	02/09/16 19:00	1
Magnesium	190		0.20	0.083	mg/L		02/09/16 08:37	02/09/16 19:00	1
Manganese	1.7	F1	0.0025	0.00099	mg/L		02/09/16 08:37	02/09/16 19:00	1
Nickel	0.047		0.0020	0.00053	mg/L		02/09/16 08:37	02/09/16 19:00	1
Potassium	5.2		0.50	0.19	mg/L		02/09/16 08:37	02/12/16 20:09	1
Selenium	0.0014	J F1	0.0025	0.00083	mg/L		02/09/16 08:37	02/12/16 20:09	1
Silver	<0.00050		0.00050	0.000080	mg/L		02/09/16 08:37	02/09/16 19:00	1
Sodium	900	^	1.0	0.44	mg/L		02/09/16 08:37	02/12/16 20:29	5
Thallium	0.00062	J B	0.0020	0.00059	mg/L		02/09/16 08:37	02/09/16 19:00	1
Vanadium	0.0071		0.0050	0.0022	mg/L		02/09/16 08:37	02/09/16 19:00	1
Zinc	0.088		0.020	0.0046	mg/L		02/09/16 08:37	02/09/16 19:00	1

Method: 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		02/09/16 15:45	02/11/16 18:33	1

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-00-TB01

Lab Sample ID: 500-107297-22

Date Collected: 02/05/16 00:00

Matrix: Water

Date Received: 02/05/16 16:55

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			02/16/16 19:21	1
Benzene	<0.00050		0.00050	0.00015	mg/L			02/16/16 19:21	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			02/16/16 19:21	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			02/16/16 19:21	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			02/16/16 19:21	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			02/16/16 19:21	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			02/16/16 19:21	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			02/16/16 19:21	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			02/16/16 19:21	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			02/16/16 19:21	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			02/16/16 19:21	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			02/16/16 19:21	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			02/16/16 19:21	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			02/16/16 19:21	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			02/16/16 19:21	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			02/16/16 19:21	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			02/16/16 19:21	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			02/16/16 19:21	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			02/16/16 19:21	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			02/16/16 19:21	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			02/16/16 19:21	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			02/16/16 19:21	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			02/16/16 19:21	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			02/16/16 19:21	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			02/16/16 19:21	1
Styrene	<0.0010		0.0010	0.00039	mg/L			02/16/16 19:21	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			02/16/16 19:21	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			02/16/16 19:21	1
Toluene	<0.00050		0.00050	0.00015	mg/L			02/16/16 19:21	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			02/16/16 19:21	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			02/16/16 19:21	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			02/16/16 19:21	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			02/16/16 19:21	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			02/16/16 19:21	1
Vinyl acetate	<0.0020 *		0.0020	0.00091	mg/L			02/16/16 19:21	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			02/16/16 19:21	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			02/16/16 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 120		02/16/16 19:21	1
Dibromofluoromethane	93		75 - 120		02/16/16 19:21	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 125		02/16/16 19:21	1
Toluene-d8 (Surr)	103		75 - 120		02/16/16 19:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Date Collected: 02/05/16 14:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/06/16 08:25	02/16/16 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/06/16 08:25	02/16/16 13:40	1
Dibromofluoromethane	96		75 - 120	02/06/16 08:25	02/16/16 13:40	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/06/16 08:25	02/16/16 13:40	1
Toluene-d8 (Surr)	105		75 - 122	02/06/16 08:25	02/16/16 13:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Date Collected: 02/05/16 14:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Phenanthrene	0.021	J	0.038	0.0054	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Fluoranthene	0.036	J	0.038	0.0072	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Pyrene	0.027	J	0.038	0.0077	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Benzo[a]anthracene	0.015	J	0.038	0.0052	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Date Collected: 02/05/16 14:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.025	J	0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Benzo[b]fluoranthene	0.027	J	0.038	0.0084	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Benzo[a]pyrene	0.016	J	0.038	0.0075	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Dibenz(a,h)anthracene	<0.038	*	0.038	0.0075	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/17/16 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	61		25 - 110	02/10/16 17:42	02/17/16 14:52	1
Phenol-d5	67		31 - 110	02/10/16 17:42	02/17/16 14:52	1
Nitrobenzene-d5	55		25 - 115	02/10/16 17:42	02/17/16 14:52	1
2-Fluorobiphenyl	55		25 - 119	02/10/16 17:42	02/17/16 14:52	1
2,4,6-Tribromophenol	36		35 - 137	02/10/16 17:42	02/17/16 14:52	1
Terphenyl-d14	65		36 - 134	02/10/16 17:42	02/17/16 14:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.25	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Arsenic	6.6	F1	0.59	0.27	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Barium	53		0.59	0.11	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Beryllium	0.71		0.24	0.051	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Boron	13		3.0	0.41	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Cadmium	0.13		0.12	0.034	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Calcium	49000	B	120	38	mg/Kg	☼	02/11/16 15:41	02/13/16 19:27	10
Chromium	19	B	0.59	0.10	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Cobalt	11		0.30	0.067	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Copper	29	F1	0.59	0.13	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Iron	18000	B	12	4.6	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Lead	57	F2	0.30	0.15	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Magnesium	21000		5.9	2.4	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Manganese	270		0.59	0.12	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Nickel	30		0.59	0.16	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Potassium	2800		30	4.8	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Silver	<0.30		0.30	0.069	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Sodium	300		59	7.8	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Vanadium	23		0.30	0.086	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1
Zinc	67	F1 F2	1.2	0.37	mg/Kg	☼	02/11/16 15:41	02/13/16 15:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 02:03	1
Boron	0.073	J B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Date Collected: 02/05/16 14:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 02:03	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:03	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:03	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 02:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 02:03	1
Manganese	0.79		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:03	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:03	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 02:03	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:03	1
Zinc	0.37	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 02:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 04:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 16:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 16:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.010	mg/Kg	☼	02/11/16 15:15	02/14/16 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61		0.200	0.200	SU			02/11/16 23:09	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

GC/MS VOA

Prep Batch: 322432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	5035	
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	5035	
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	5035	
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	5035	
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	5035	
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	5035	
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	5035	
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	5035	
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	5035	
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	5035	
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	5035	
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	5035	
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	5035	
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	5035	
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	5035	
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	5035	
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	5035	
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	5035	
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	5035	
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	5035	
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	5035	

Analysis Batch: 322898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	8260B	322432
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	8260B	322432
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	8260B	322432
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	8260B	322432
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	8260B	322432
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	8260B	322432
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	8260B	322432
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	8260B	322432
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	8260B	322432
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	8260B	322432
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	8260B	322432
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	8260B	322432
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	8260B	322432
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	8260B	322432
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	8260B	322432
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	8260B	322432
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	8260B	322432
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	8260B	322432
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	8260B	322432
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	8260B	322432
LCS 500-322898/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-322898/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-322898/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 322973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	8260B	322432

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

GC/MS VOA (Continued)

Analysis Batch: 322973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322973/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-322973/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-322973/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 323097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total/NA	Water	8260B	
500-107297-22	2746-00-TB01	Total/NA	Water	8260B	
LCS 500-323097/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-323097/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 322157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total/NA	Water	3510C	
LCS 500-322157/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-322157/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-322157/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 322276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	3541	
500-107297-1 MS	2746-02-B02 (0-7)	Total/NA	Solid	3541	
500-107297-1 MSD	2746-02-B02 (0-7)	Total/NA	Solid	3541	
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	3541	
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	3541	
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	3541	
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	3541	
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	3541	
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	3541	
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	3541	
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	3541	
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	3541	
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	3541	
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	3541	
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	3541	
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	3541	
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	3541	
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	3541	
LCS 500-322276/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322276/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 322382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	3541	
LCS 500-322382/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322382/1-A	Method Blank	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

GC/MS Semi VOA (Continued)

Analysis Batch: 322984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	8270D	322276
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	8270D	322276

Analysis Batch: 323052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	8270D	322276
500-107297-1 MS	2746-02-B02 (0-7)	Total/NA	Solid	8270D	322276
500-107297-1 MSD	2746-02-B02 (0-7)	Total/NA	Solid	8270D	322276
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	8270D	322276
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	8270D	322276
500-107297-4	2746-01-B58 (8-8)	Total/NA	Solid	8270D	322276
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	8270D	322276
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	8270D	322276
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	8270D	322276
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	8270D	322276
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	8270D	322276
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	8270D	322276
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	8270D	322276
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	8270D	322276
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	8270D	322276
MB 500-322276/1-A	Method Blank	Total/NA	Solid	8270D	322276

Analysis Batch: 323158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322157/2-A	Lab Control Sample	Total/NA	Water	8270D	322157
LCS 500-322276/2-A	Lab Control Sample	Total/NA	Solid	8270D	322276
LCS 500-322382/2-A	Lab Control Sample	Total/NA	Solid	8270D	322382
LCSD 500-322157/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	322157
MB 500-322157/1-A	Method Blank	Total/NA	Water	8270D	322157
MB 500-322382/1-A	Method Blank	Total/NA	Solid	8270D	322382

Analysis Batch: 323169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	8270D	322382

Analysis Batch: 323191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total/NA	Water	8270D	322157

Prep Batch: 323276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	3541	
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	3541	
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	3541	
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	3541	
LCS 500-323276/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-323276/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 323328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	8270D	323276

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

GC/MS Semi VOA (Continued)

Analysis Batch: 323328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	8270D	323276
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	8270D	323276
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	8270D	323276
LCS 500-323276/2-A	Lab Control Sample	Total/NA	Solid	8270D	323276
MB 500-323276/1-A	Method Blank	Total/NA	Solid	8270D	323276

Analysis Batch: 323516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	8270D	322276

Metals

Prep Batch: 322174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total Recoverable	Water	3005A	
500-107297-21 DU	2746-01-G03	Total Recoverable	Water	3005A	
500-107297-21 MS	2746-01-G03	Total Recoverable	Water	3005A	
500-107297-21 MSD	2746-01-G03	Total Recoverable	Water	3005A	
LCS 500-322174/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-322174/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 322243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total/NA	Water	7470A	
LCS 500-322243/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-322243/12-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 322298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 DU	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 MS	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 MSD	2746-01-G03	Total Recoverable	Water	6020A	322174
LCS 500-322174/2-A	Lab Control Sample	Total Recoverable	Water	6020A	322174
MB 500-322174/1-A	Method Blank	Total Recoverable	Water	6020A	322174

Leach Batch: 322351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	TCLP	Solid	1311	
500-107297-2	2746-02-B02 (7-13)	TCLP	Solid	1311	
500-107297-2 DU	2746-02-B02 (7-13)	TCLP	Solid	1311	
500-107297-2 MS	2746-02-B02 (7-13)	TCLP	Solid	1311	
500-107297-3	2746-02-B02 (13-19)	TCLP	Solid	1311	
500-107297-4	2746-01-B58 (0-8)	TCLP	Solid	1311	
500-107297-4 DU	2746-01-B58 (0-8)	TCLP	Solid	1311	
500-107297-4 MS	2746-01-B58 (0-8)	TCLP	Solid	1311	
500-107297-5	2746-01-B58 (8-16)	TCLP	Solid	1311	
500-107297-6	2746-01-B59 (0-7)	TCLP	Solid	1311	
500-107297-7	2746-01-B59 (0-7)D	TCLP	Solid	1311	
500-107297-8	2746-01-B59 (7-14)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Leach Batch: 322351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-9	2746-01-B59 (14-20)	TCLP	Solid	1311	
500-107297-10	2746-01-B60 (0-7)	TCLP	Solid	1311	
500-107297-11	2746-01-B60 (7-14)	TCLP	Solid	1311	
500-107297-12	2746-01-B60 (14-20)	TCLP	Solid	1311	
500-107297-13	2746-01-B04 (0-8)	TCLP	Solid	1311	
500-107297-14	2746-01-B04 (8-17)	TCLP	Solid	1311	
500-107297-15	2746-01-B03 (0-8)	TCLP	Solid	1311	
500-107297-16	2746-01-B03 (8-12)	TCLP	Solid	1311	
500-107297-17	2746-01-B02 (0-8)	TCLP	Solid	1311	
500-107297-18	2746-01-B02 (8-15)	TCLP	Solid	1311	
500-107297-19	2746-01-B01 (0-5)	TCLP	Solid	1311	
500-107297-20	2746-01-B01 (5-10)	TCLP	Solid	1311	
LB 500-322351/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322351/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	TCLP	Solid	1311	
LB 500-322353/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322353/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	SPLP East	Solid	1312	
500-107297-1 DU	2746-02-B02 (0-7)	SPLP East	Solid	1312	
500-107297-1 MS	2746-02-B02 (0-7)	SPLP East	Solid	1312	
500-107297-2	2746-02-B02 (7-13)	SPLP East	Solid	1312	
500-107297-3	2746-02-B02 (13-19)	SPLP East	Solid	1312	
500-107297-4	2746-01-B58 (0-8)	SPLP East	Solid	1312	
500-107297-5	2746-01-B58 (8-16)	SPLP East	Solid	1312	
500-107297-6	2746-01-B59 (0-7)	SPLP East	Solid	1312	
500-107297-7	2746-01-B59 (0-7)D	SPLP East	Solid	1312	
500-107297-8	2746-01-B59 (7-14)	SPLP East	Solid	1312	
500-107297-9	2746-01-B59 (14-20)	SPLP East	Solid	1312	
500-107297-10	2746-01-B60 (0-7)	SPLP East	Solid	1312	
500-107297-11	2746-01-B60 (7-14)	SPLP East	Solid	1312	
500-107297-12	2746-01-B60 (14-20)	SPLP East	Solid	1312	
500-107297-13	2746-01-B04 (0-8)	SPLP East	Solid	1312	
500-107297-14	2746-01-B04 (8-17)	SPLP East	Solid	1312	
500-107297-15	2746-01-B03 (0-8)	SPLP East	Solid	1312	
500-107297-16	2746-01-B03 (8-12)	SPLP East	Solid	1312	
500-107297-17	2746-01-B02 (0-8)	SPLP East	Solid	1312	
500-107297-18	2746-01-B02 (8-15)	SPLP East	Solid	1312	
500-107297-19	2746-01-B01 (0-5)	SPLP East	Solid	1312	
500-107297-20	2746-01-B01 (5-10)	SPLP East	Solid	1312	
LB 500-322356/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 322357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	SPLP East	Solid	1312	
LB 500-322357/1-B	Method Blank	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Prep Batch: 322476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	7471B	
500-107297-1 DU	2746-02-B02 (0-7)	Total/NA	Solid	7471B	
500-107297-1 MS	2746-02-B02 (0-7)	Total/NA	Solid	7471B	
500-107297-1 MSD	2746-02-B02 (0-7)	Total/NA	Solid	7471B	
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	7471B	
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	7471B	
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	7471B	
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	7471B	
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	7471B	
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	7471B	
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	7471B	
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	7471B	
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	7471B	
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	7471B	
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	7471B	
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	7471B	
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	7471B	
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	7471B	
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	7471B	
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	7471B	
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	7471B	
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	7471B	
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	7471B	
LCS 500-322476/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-322476/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 322484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	7471B	
LCS 500-322484/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-322484/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 322514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	TCLP	Solid	3010A	322351
500-107297-2	2746-02-B02 (7-13)	TCLP	Solid	3010A	322351
500-107297-3	2746-02-B02 (13-19)	TCLP	Solid	3010A	322351
500-107297-4	2746-01-B58 (0-8)	TCLP	Solid	3010A	322351
500-107297-4 DU	2746-01-B58 (0-8)	TCLP	Solid	3010A	322351
500-107297-4 MS	2746-01-B58 (0-8)	TCLP	Solid	3010A	322351
500-107297-5	2746-01-B58 (8-16)	TCLP	Solid	3010A	322351
500-107297-6	2746-01-B59 (0-7)	TCLP	Solid	3010A	322351
500-107297-7	2746-01-B59 (0-7)D	TCLP	Solid	3010A	322351
500-107297-8	2746-01-B59 (7-14)	TCLP	Solid	3010A	322351
500-107297-9	2746-01-B59 (14-20)	TCLP	Solid	3010A	322351
500-107297-10	2746-01-B60 (0-7)	TCLP	Solid	3010A	322351
500-107297-11	2746-01-B60 (7-14)	TCLP	Solid	3010A	322351
500-107297-12	2746-01-B60 (14-20)	TCLP	Solid	3010A	322351
500-107297-13	2746-01-B04 (0-8)	TCLP	Solid	3010A	322351
500-107297-14	2746-01-B04 (8-17)	TCLP	Solid	3010A	322351
500-107297-15	2746-01-B03 (0-8)	TCLP	Solid	3010A	322351
500-107297-16	2746-01-B03 (8-12)	TCLP	Solid	3010A	322351
500-107297-17	2746-01-B02 (0-8)	TCLP	Solid	3010A	322351

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Prep Batch: 322514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-18	2746-01-B02 (8-15)	TCLP	Solid	3010A	322351
500-107297-19	2746-01-B01 (0-5)	TCLP	Solid	3010A	322351
500-107297-20	2746-01-B01 (5-10)	TCLP	Solid	3010A	322351
LB 500-322351/1-B	Method Blank	TCLP	Solid	3010A	322351
LCS 500-322514/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	TCLP	Solid	3010A	322353
LB 500-322353/1-B	Method Blank	TCLP	Solid	3010A	322353
LCS 500-322516/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	SPLP East	Solid	3010A	322356
500-107297-1 DU	2746-02-B02 (0-7)	SPLP East	Solid	3010A	322356
500-107297-1 MS	2746-02-B02 (0-7)	SPLP East	Solid	3010A	322356
500-107297-2	2746-02-B02 (7-13)	SPLP East	Solid	3010A	322356
500-107297-3	2746-02-B02 (13-19)	SPLP East	Solid	3010A	322356
500-107297-4	2746-01-B58 (0-8)	SPLP East	Solid	3010A	322356
500-107297-5	2746-01-B58 (8-16)	SPLP East	Solid	3010A	322356
500-107297-6	2746-01-B59 (0-7)	SPLP East	Solid	3010A	322356
500-107297-7	2746-01-B59 (0-7)D	SPLP East	Solid	3010A	322356
500-107297-8	2746-01-B59 (7-14)	SPLP East	Solid	3010A	322356
500-107297-9	2746-01-B59 (14-20)	SPLP East	Solid	3010A	322356
500-107297-10	2746-01-B60 (0-7)	SPLP East	Solid	3010A	322356
500-107297-11	2746-01-B60 (7-14)	SPLP East	Solid	3010A	322356
500-107297-12	2746-01-B60 (14-20)	SPLP East	Solid	3010A	322356
500-107297-13	2746-01-B04 (0-8)	SPLP East	Solid	3010A	322356
500-107297-14	2746-01-B04 (8-17)	SPLP East	Solid	3010A	322356
500-107297-15	2746-01-B03 (0-8)	SPLP East	Solid	3010A	322356
500-107297-16	2746-01-B03 (8-12)	SPLP East	Solid	3010A	322356
500-107297-17	2746-01-B02 (0-8)	SPLP East	Solid	3010A	322356
500-107297-18	2746-01-B02 (8-15)	SPLP East	Solid	3010A	322356
500-107297-19	2746-01-B01 (0-5)	SPLP East	Solid	3010A	322356
500-107297-20	2746-01-B01 (5-10)	SPLP East	Solid	3010A	322356
LB 500-322356/1-B	Method Blank	SPLP East	Solid	3010A	322356
LCS 500-322522/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	SPLP East	Solid	3010A	322357
LB 500-322357/1-B	Method Blank	SPLP East	Solid	3010A	322357
LCS 500-322525/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	3050B	
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	3050B	
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	3050B	
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Prep Batch: 322527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	3050B	
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	3050B	
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	3050B	
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	3050B	
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	3050B	
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	3050B	
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	3050B	
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	3050B	
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	3050B	
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	3050B	
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	3050B	
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	3050B	
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	3050B	
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	3050B	
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	3050B	
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	3050B	
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	3050B	
500-107297-23 DU	2746-01-B37 (0-8)	Total/NA	Solid	3050B	
500-107297-23 MS	2746-01-B37 (0-8)	Total/NA	Solid	3050B	
500-107297-23 MSD	2746-01-B37 (0-8)	Total/NA	Solid	3050B	
LCS 500-322527/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322527/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 322553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	TCLP	Solid	7470A	322351
500-107297-2	2746-02-B02 (7-13)	TCLP	Solid	7470A	322351
500-107297-2 DU	2746-02-B02 (7-13)	TCLP	Solid	7470A	322351
500-107297-2 MS	2746-02-B02 (7-13)	TCLP	Solid	7470A	322351
500-107297-3	2746-02-B02 (13-19)	TCLP	Solid	7470A	322351
500-107297-4	2746-01-B58 (0-8)	TCLP	Solid	7470A	322351
500-107297-5	2746-01-B58 (8-16)	TCLP	Solid	7470A	322351
500-107297-6	2746-01-B59 (0-7)	TCLP	Solid	7470A	322351
500-107297-7	2746-01-B59 (0-7)D	TCLP	Solid	7470A	322351
500-107297-8	2746-01-B59 (7-14)	TCLP	Solid	7470A	322351
500-107297-9	2746-01-B59 (14-20)	TCLP	Solid	7470A	322351
500-107297-10	2746-01-B60 (0-7)	TCLP	Solid	7470A	322351
500-107297-11	2746-01-B60 (7-14)	TCLP	Solid	7470A	322351
500-107297-12	2746-01-B60 (14-20)	TCLP	Solid	7470A	322351
500-107297-13	2746-01-B04 (0-8)	TCLP	Solid	7470A	322351
500-107297-14	2746-01-B04 (8-17)	TCLP	Solid	7470A	322351
500-107297-15	2746-01-B03 (0-8)	TCLP	Solid	7470A	322351
500-107297-16	2746-01-B03 (8-12)	TCLP	Solid	7470A	322351
500-107297-17	2746-01-B02 (0-8)	TCLP	Solid	7470A	322351
500-107297-18	2746-01-B02 (8-15)	TCLP	Solid	7470A	322351
500-107297-19	2746-01-B01 (0-5)	TCLP	Solid	7470A	322351
500-107297-20	2746-01-B01 (5-10)	TCLP	Solid	7470A	322351
LB 500-322351/1-C	Method Blank	TCLP	Solid	7470A	322351
LCS 500-322553/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322553/12-A	Method Blank	Total/NA	Solid	7470A	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Prep Batch: 322554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	TCLP	Solid	7470A	322353
LB 500-322353/1-C	Method Blank	TCLP	Solid	7470A	322353
LCS 500-322554/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322554/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 322627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total/NA	Water	7470A	322243
LCS 500-322243/13-A	Lab Control Sample	Total/NA	Water	7470A	322243
MB 500-322243/12-A	Method Blank	Total/NA	Water	7470A	322243

Analysis Batch: 322708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	6010B	322527
LCS 500-322527/2-A	Lab Control Sample	Total/NA	Solid	6010B	322527
MB 500-322527/1-A	Method Blank	Total/NA	Solid	6010B	322527

Analysis Batch: 322710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	SPLP East	Solid	6010B	322522
500-107297-1 DU	2746-02-B02 (0-7)	SPLP East	Solid	6010B	322522
500-107297-1 MS	2746-02-B02 (0-7)	SPLP East	Solid	6010B	322522
500-107297-2	2746-02-B02 (7-13)	SPLP East	Solid	6010B	322522
500-107297-3	2746-02-B02 (13-19)	SPLP East	Solid	6010B	322522
500-107297-4	2746-01-B58 (0-8)	SPLP East	Solid	6010B	322522
500-107297-5	2746-01-B58 (8-16)	SPLP East	Solid	6010B	322522
500-107297-6	2746-01-B59 (0-7)	SPLP East	Solid	6010B	322522
500-107297-7	2746-01-B59 (0-7)D	SPLP East	Solid	6010B	322522
500-107297-8	2746-01-B59 (7-14)	SPLP East	Solid	6010B	322522
500-107297-9	2746-01-B59 (14-20)	SPLP East	Solid	6010B	322522
500-107297-10	2746-01-B60 (0-7)	SPLP East	Solid	6010B	322522
500-107297-11	2746-01-B60 (7-14)	SPLP East	Solid	6010B	322522
500-107297-12	2746-01-B60 (14-20)	SPLP East	Solid	6010B	322522
500-107297-13	2746-01-B04 (0-8)	SPLP East	Solid	6010B	322522
500-107297-14	2746-01-B04 (8-17)	SPLP East	Solid	6010B	322522
500-107297-15	2746-01-B03 (0-8)	SPLP East	Solid	6010B	322522
500-107297-16	2746-01-B03 (8-12)	SPLP East	Solid	6010B	322522
500-107297-17	2746-01-B02 (0-8)	SPLP East	Solid	6010B	322522
500-107297-18	2746-01-B02 (8-15)	SPLP East	Solid	6010B	322522
500-107297-19	2746-01-B01 (0-5)	SPLP East	Solid	6010B	322522
500-107297-20	2746-01-B01 (5-10)	SPLP East	Solid	6010B	322522
500-107297-23	2746-01-B37 (0-8)	SPLP East	Solid	6010B	322525
LB 500-322356/1-B	Method Blank	SPLP East	Solid	6010B	322522
LB 500-322357/1-B	Method Blank	SPLP East	Solid	6010B	322525
LCS 500-322522/2-A	Lab Control Sample	Total/NA	Solid	6010B	322522
LCS 500-322525/2-A	Lab Control Sample	Total/NA	Solid	6010B	322525

Analysis Batch: 322773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	7471B	322476
500-107297-1 DU	2746-02-B02 (0-7)	Total/NA	Solid	7471B	322476

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Analysis Batch: 322773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1 MS	2746-02-B02 (0-7)	Total/NA	Solid	7471B	322476
500-107297-1 MSD	2746-02-B02 (0-7)	Total/NA	Solid	7471B	322476
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	7471B	322476
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	7471B	322476
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	7471B	322476
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	7471B	322476
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	7471B	322476
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	7471B	322476
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	7471B	322476
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	7471B	322476
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	7471B	322476
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	7471B	322476
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	7471B	322476
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	7471B	322476
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	7471B	322476
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	7471B	322476
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	7471B	322476
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	7471B	322476
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	7471B	322476
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	7471B	322476
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	7471B	322476
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	7471B	322484
LCS 500-322476/13-A	Lab Control Sample	Total/NA	Solid	7471B	322476
LCS 500-322484/13-A	Lab Control Sample	Total/NA	Solid	7471B	322484
MB 500-322476/12-A	Method Blank	Total/NA	Solid	7471B	322476
MB 500-322484/12-A	Method Blank	Total/NA	Solid	7471B	322484

Analysis Batch: 322809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	6010B	322527
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	6010B	322527
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	6010B	322527
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	6010B	322527
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	6010B	322527
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	6010B	322527
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	6010B	322527
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	6010B	322527
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	6010B	322527
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	6010B	322527
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	6010B	322527
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	6010B	322527
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	6010B	322527
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	6010B	322527
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	6010B	322527
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	6010B	322527
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	6010B	322527
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	6010B	322527
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	6010B	322527
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	6010B	322527
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	6010B	322527
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	6010B	322527

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Analysis Batch: 322809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	6010B	322527
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	6010B	322527
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	6010B	322527
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	6010B	322527
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	6010B	322527
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	6010B	322527
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	6010B	322527
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	6010B	322527
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	6010B	322527
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	6010B	322527
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	6010B	322527
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	6010B	322527
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23 DU	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23 DU	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23 MS	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23 MS	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23 MSD	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527
500-107297-23 MSD	2746-01-B37 (0-8)	Total/NA	Solid	6010B	322527

Analysis Batch: 322811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	TCLP	Solid	6010B	322514
500-107297-2	2746-02-B02 (7-13)	TCLP	Solid	6010B	322514
500-107297-3	2746-02-B02 (13-19)	TCLP	Solid	6010B	322514
500-107297-4	2746-01-B58 (0-8)	TCLP	Solid	6010B	322514
500-107297-4 DU	2746-01-B58 (0-8)	TCLP	Solid	6010B	322514
500-107297-4 MS	2746-01-B58 (0-8)	TCLP	Solid	6010B	322514
500-107297-5	2746-01-B58 (8-16)	TCLP	Solid	6010B	322514
500-107297-6	2746-01-B59 (0-7)	TCLP	Solid	6010B	322514
500-107297-7	2746-01-B59 (0-7)D	TCLP	Solid	6010B	322514
500-107297-8	2746-01-B59 (7-14)	TCLP	Solid	6010B	322514
500-107297-9	2746-01-B59 (14-20)	TCLP	Solid	6010B	322514
500-107297-10	2746-01-B60 (0-7)	TCLP	Solid	6010B	322514
500-107297-11	2746-01-B60 (7-14)	TCLP	Solid	6010B	322514
500-107297-12	2746-01-B60 (14-20)	TCLP	Solid	6010B	322514
500-107297-13	2746-01-B04 (0-8)	TCLP	Solid	6010B	322514
500-107297-14	2746-01-B04 (8-17)	TCLP	Solid	6010B	322514
500-107297-15	2746-01-B03 (0-8)	TCLP	Solid	6010B	322514
500-107297-16	2746-01-B03 (8-12)	TCLP	Solid	6010B	322514
500-107297-17	2746-01-B02 (0-8)	TCLP	Solid	6010B	322514
500-107297-18	2746-01-B02 (8-15)	TCLP	Solid	6010B	322514
500-107297-19	2746-01-B01 (0-5)	TCLP	Solid	6010B	322514
500-107297-20	2746-01-B01 (5-10)	TCLP	Solid	6010B	322514
LB 500-322351/1-B	Method Blank	TCLP	Solid	6010B	322514
LCS 500-322514/2-A	Lab Control Sample	Total/NA	Solid	6010B	322514

Analysis Batch: 322812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	TCLP	Solid	6010B	322516

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Analysis Batch: 322812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-322353/1-B	Method Blank	TCLP	Solid	6010B	322516
LCS 500-322516/2-A	Lab Control Sample	Total/NA	Solid	6010B	322516

Analysis Batch: 322857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	TCLP	Solid	6020A	322514
500-107297-2	2746-02-B02 (7-13)	TCLP	Solid	6020A	322514
500-107297-3	2746-02-B02 (13-19)	TCLP	Solid	6020A	322514
500-107297-4	2746-01-B58 (0-8)	TCLP	Solid	6020A	322514
500-107297-4 DU	2746-01-B58 (0-8)	TCLP	Solid	6020A	322514
500-107297-4 MS	2746-01-B58 (0-8)	TCLP	Solid	6020A	322514
500-107297-5	2746-01-B58 (8-16)	TCLP	Solid	6020A	322514
500-107297-6	2746-01-B59 (0-7)	TCLP	Solid	6020A	322514
500-107297-7	2746-01-B59 (0-7)D	TCLP	Solid	6020A	322514
500-107297-8	2746-01-B59 (7-14)	TCLP	Solid	6020A	322514
500-107297-9	2746-01-B59 (14-20)	TCLP	Solid	6020A	322514
500-107297-10	2746-01-B60 (0-7)	TCLP	Solid	6020A	322514
500-107297-11	2746-01-B60 (7-14)	TCLP	Solid	6020A	322514
500-107297-12	2746-01-B60 (14-20)	TCLP	Solid	6020A	322514
500-107297-13	2746-01-B04 (0-8)	TCLP	Solid	6020A	322514
500-107297-14	2746-01-B04 (8-17)	TCLP	Solid	6020A	322514
500-107297-15	2746-01-B03 (0-8)	TCLP	Solid	6020A	322514
500-107297-16	2746-01-B03 (8-12)	TCLP	Solid	6020A	322514
500-107297-17	2746-01-B02 (0-8)	TCLP	Solid	6020A	322514
500-107297-18	2746-01-B02 (8-15)	TCLP	Solid	6020A	322514
500-107297-19	2746-01-B01 (0-5)	TCLP	Solid	6020A	322514
500-107297-20	2746-01-B01 (5-10)	TCLP	Solid	6020A	322514
500-107297-23	2746-01-B37 (0-8)	TCLP	Solid	6020A	322516
LB 500-322351/1-B	Method Blank	TCLP	Solid	6020A	322514
LB 500-322353/1-B	Method Blank	TCLP	Solid	6020A	322516
LCS 500-322514/2-A	Lab Control Sample	Total/NA	Solid	6020A	322514
LCS 500-322516/2-A	Lab Control Sample	Total/NA	Solid	6020A	322516

Analysis Batch: 322858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-21	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 DU	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 DU	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 MS	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 MS	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 MSD	2746-01-G03	Total Recoverable	Water	6020A	322174
500-107297-21 MSD	2746-01-G03	Total Recoverable	Water	6020A	322174
LCS 500-322174/2-A	Lab Control Sample	Total Recoverable	Water	6020A	322174
MB 500-322174/1-A	Method Blank	Total Recoverable	Water	6020A	322174

Analysis Batch: 322866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	TCLP	Solid	7470A	322553
500-107297-2	2746-02-B02 (7-13)	TCLP	Solid	7470A	322553
500-107297-2 DU	2746-02-B02 (7-13)	TCLP	Solid	7470A	322553

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Metals (Continued)

Analysis Batch: 322866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-2 MS	2746-02-B02 (7-13)	TCLP	Solid	7470A	322553
500-107297-3	2746-02-B02 (13-19)	TCLP	Solid	7470A	322553
500-107297-4	2746-01-B58 (0-8)	TCLP	Solid	7470A	322553
500-107297-5	2746-01-B58 (8-16)	TCLP	Solid	7470A	322553
500-107297-6	2746-01-B59 (0-7)	TCLP	Solid	7470A	322553
500-107297-7	2746-01-B59 (0-7)D	TCLP	Solid	7470A	322553
500-107297-8	2746-01-B59 (7-14)	TCLP	Solid	7470A	322553
500-107297-9	2746-01-B59 (14-20)	TCLP	Solid	7470A	322553
500-107297-10	2746-01-B60 (0-7)	TCLP	Solid	7470A	322553
500-107297-11	2746-01-B60 (7-14)	TCLP	Solid	7470A	322553
500-107297-12	2746-01-B60 (14-20)	TCLP	Solid	7470A	322553
500-107297-13	2746-01-B04 (0-8)	TCLP	Solid	7470A	322553
500-107297-14	2746-01-B04 (8-17)	TCLP	Solid	7470A	322553
500-107297-15	2746-01-B03 (0-8)	TCLP	Solid	7470A	322553
500-107297-16	2746-01-B03 (8-12)	TCLP	Solid	7470A	322553
500-107297-17	2746-01-B02 (0-8)	TCLP	Solid	7470A	322553
500-107297-18	2746-01-B02 (8-15)	TCLP	Solid	7470A	322553
500-107297-19	2746-01-B01 (0-5)	TCLP	Solid	7470A	322553
500-107297-20	2746-01-B01 (5-10)	TCLP	Solid	7470A	322553
500-107297-23	2746-01-B37 (0-8)	TCLP	Solid	7470A	322554
LB 500-322351/1-C	Method Blank	TCLP	Solid	7470A	322553
LB 500-322353/1-C	Method Blank	TCLP	Solid	7470A	322554
LCS 500-322553/13-A	Lab Control Sample	Total/NA	Solid	7470A	322553
LCS 500-322554/13-A	Lab Control Sample	Total/NA	Solid	7470A	322554
MB 500-322553/12-A	Method Blank	Total/NA	Solid	7470A	322553
MB 500-322554/12-A	Method Blank	Total/NA	Solid	7470A	322554

General Chemistry

Analysis Batch: 322208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	Moisture	
500-107297-1 DU	2746-02-B02 (0-7)	Total/NA	Solid	Moisture	
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	Moisture	
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	Moisture	
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	Moisture	
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	Moisture	
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	Moisture	
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	Moisture	
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	Moisture	
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	Moisture	
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	Moisture	
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	Moisture	
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	Moisture	
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	Moisture	
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	Moisture	
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	Moisture	
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	Moisture	
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	Moisture	
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

General Chemistry (Continued)

Analysis Batch: 322208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	Moisture	
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 322227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	Moisture	
500-107297-23 DU	2746-01-B37 (0-8)	Total/NA	Solid	Moisture	

Analysis Batch: 322568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107297-1	2746-02-B02 (0-7)	Total/NA	Solid	9045D	
500-107297-2	2746-02-B02 (7-13)	Total/NA	Solid	9045D	
500-107297-3	2746-02-B02 (13-19)	Total/NA	Solid	9045D	
500-107297-4	2746-01-B58 (0-8)	Total/NA	Solid	9045D	
500-107297-5	2746-01-B58 (8-16)	Total/NA	Solid	9045D	
500-107297-6	2746-01-B59 (0-7)	Total/NA	Solid	9045D	
500-107297-7	2746-01-B59 (0-7)D	Total/NA	Solid	9045D	
500-107297-8	2746-01-B59 (7-14)	Total/NA	Solid	9045D	
500-107297-9	2746-01-B59 (14-20)	Total/NA	Solid	9045D	
500-107297-10	2746-01-B60 (0-7)	Total/NA	Solid	9045D	
500-107297-11	2746-01-B60 (7-14)	Total/NA	Solid	9045D	
500-107297-11 DU	2746-01-B60 (7-14)	Total/NA	Solid	9045D	
500-107297-12	2746-01-B60 (14-20)	Total/NA	Solid	9045D	
500-107297-13	2746-01-B04 (0-8)	Total/NA	Solid	9045D	
500-107297-14	2746-01-B04 (8-17)	Total/NA	Solid	9045D	
500-107297-15	2746-01-B03 (0-8)	Total/NA	Solid	9045D	
500-107297-16	2746-01-B03 (8-12)	Total/NA	Solid	9045D	
500-107297-17	2746-01-B02 (0-8)	Total/NA	Solid	9045D	
500-107297-18	2746-01-B02 (8-15)	Total/NA	Solid	9045D	
500-107297-19	2746-01-B01 (0-5)	Total/NA	Solid	9045D	
500-107297-20	2746-01-B01 (5-10)	Total/NA	Solid	9045D	
500-107297-23	2746-01-B37 (0-8)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - VOC

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(75-120)	(75-120)	(75-125)	(75-120)
500-107297-21	2746-01-G03	98	93	108	103
500-107297-22	2746-00-TB01	98	93	107	103
LCS 500-323097/4	Lab Control Sample	97	98	107	104
MB 500-323097/6	Method Blank	99	94	108	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-122)	(75-120)	(70-134)	(75-122)
500-107297-1	2746-02-B02 (0-7)	91	95	91	107
500-107297-2	2746-02-B02 (7-13)	95	94	93	104
500-107297-3	2746-02-B02 (13-19)	96	96	96	103
500-107297-4	2746-01-B58 (0-8)	95	96	91	107
500-107297-5	2746-01-B58 (8-16)	96	94	95	102
500-107297-6	2746-01-B59 (0-7)	95	96	94	103
500-107297-7	2746-01-B59 (0-7)D	91	97	89	108
500-107297-8	2746-01-B59 (7-14)	94	95	95	106
500-107297-9	2746-01-B59 (14-20)	94	93	93	103
500-107297-10	2746-01-B60 (0-7)	90	97	89	104
500-107297-11	2746-01-B60 (7-14)	92	95	94	104
500-107297-12	2746-01-B60 (14-20)	95	98	94	103
500-107297-13	2746-01-B04 (0-8)	93	98	94	106
500-107297-14	2746-01-B04 (8-17)	94	95	92	103
500-107297-15	2746-01-B03 (0-8)	93	96	91	105
500-107297-16	2746-01-B03 (8-12)	95	92	94	103
500-107297-17	2746-01-B02 (0-8)	90	95	90	106
500-107297-18	2746-01-B02 (8-15)	95	95	93	103
500-107297-19	2746-01-B01 (0-5)	96	98	96	100
500-107297-20	2746-01-B01 (5-10)	94	98	92	104
500-107297-23	2746-01-B37 (0-8)	94	96	91	105
LCS 500-322898/4	Lab Control Sample	99	88	80	106
LCS 500-322973/4	Lab Control Sample	98	88	77	106
LCSD 500-322898/5	Lab Control Sample Dup	96	87	80	107
LCSD 500-322973/5	Lab Control Sample Dup	96	88	79	107
MB 500-322898/6	Method Blank	97	95	87	101
MB 500-322973/6	Method Blank	95	90	80	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107297-1	2746-02-B02 (0-7)	106	112 X	97	93	97	111
500-107297-1 MS	2746-02-B02 (0-7)	112 X	112 X	101	92	95	180 X
500-107297-1 MSD	2746-02-B02 (0-7)	120 X	120 X	112	98	101	196 X
500-107297-2	2746-02-B02 (7-13)	117 X	109	100	94	93	112
500-107297-3	2746-02-B02 (13-19)	107	102	95	92	72	115
500-107297-4	2746-01-B58 (0-8)	101	103	91	87	94	112
500-107297-5	2746-01-B58 (8-16)	111 X	107	103	95	87	122
500-107297-6	2746-01-B59 (0-7)	104	110	100	89	95	103
500-107297-7	2746-01-B59 (0-7)D	105	115 X	96	90	105	113
500-107297-8	2746-01-B59 (7-14)	68	74	64	65	67	83
500-107297-9	2746-01-B59 (14-20)	71	76	73	72	70	98
500-107297-10	2746-01-B60 (0-7)	113 X	125 X	111	117	120	165 X
500-107297-11	2746-01-B60 (7-14)	111 X	97	99	94	103	125
500-107297-12	2746-01-B60 (14-20)	104	102	102	91	85	121
500-107297-13	2746-01-B04 (0-8)	60	59	61	66	86	133
500-107297-14	2746-01-B04 (8-17)	100	107	97	91	94	103
500-107297-15	2746-01-B03 (0-8)	107	111 X	99	94	100	105
500-107297-16	2746-01-B03 (8-12)	75	80	75	75	66	92
500-107297-17	2746-01-B02 (0-8)	106	108	97	89	93	100
500-107297-18	2746-01-B02 (8-15)	110	112 X	99	91	81	145 X
500-107297-19	2746-01-B01 (0-5)	100	96	89	89	107	106
500-107297-20	2746-01-B01 (5-10)	105	103	96	94	110	116
500-107297-23	2746-01-B37 (0-8)	61	67	55	55	36	65
LCS 500-322276/2-A	Lab Control Sample	83	82	86	78	99	83
LCS 500-322382/2-A	Lab Control Sample	47	46	48	47	57	59
LCS 500-323276/2-A	Lab Control Sample	82	83	80	80	81	95
MB 500-322276/1-A	Method Blank	105	112 X	104	94	77	105
MB 500-322382/1-A	Method Blank	71	68	61	66	55	83
MB 500-323276/1-A	Method Blank	74	74	68	71	48	91

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (53-150)	FBP (41-132)	2FP (32-110)	NBZ (47-134)	PHL (25-100)	TPH (59-150)
500-107297-21	2746-01-G03	94	61	42	58	41	156 X
LCS 500-322157/2-A	Lab Control Sample	102	70	51	68	41	107
LCSD 500-322157/3-A	Lab Control Sample Dup	112	80	62	79	51	105
MB 500-322157/1-A	Method Blank	89	71	57	72	46	103

Surrogate Legend

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - VOC

Lab Sample ID: MB 500-323097/6

Matrix: Water

Analysis Batch: 323097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0050		0.0050	0.0017	mg/L			02/16/16 18:53	1
Benzene	<0.00050		0.00050	0.00015	mg/L			02/16/16 18:53	1
Bromodichloromethane	<0.0010		0.0010	0.00037	mg/L			02/16/16 18:53	1
Bromoform	<0.0010		0.0010	0.00048	mg/L			02/16/16 18:53	1
Bromomethane	<0.0020		0.0020	0.00080	mg/L			02/16/16 18:53	1
Carbon disulfide	<0.0020		0.0020	0.00045	mg/L			02/16/16 18:53	1
Carbon tetrachloride	<0.0010		0.0010	0.00038	mg/L			02/16/16 18:53	1
Chlorobenzene	<0.0010		0.0010	0.00039	mg/L			02/16/16 18:53	1
Chloroethane	<0.0010		0.0010	0.00051	mg/L			02/16/16 18:53	1
Chloroform	<0.0010		0.0010	0.00037	mg/L			02/16/16 18:53	1
Chloromethane	<0.0010		0.0010	0.00032	mg/L			02/16/16 18:53	1
cis-1,2-Dichloroethene	<0.0010		0.0010	0.00041	mg/L			02/16/16 18:53	1
cis-1,3-Dichloropropene	<0.0010		0.0010	0.00042	mg/L			02/16/16 18:53	1
Dibromochloromethane	<0.0010		0.0010	0.00049	mg/L			02/16/16 18:53	1
1,1-Dichloroethane	<0.0010		0.0010	0.00041	mg/L			02/16/16 18:53	1
1,2-Dichloroethane	<0.0010		0.0010	0.00039	mg/L			02/16/16 18:53	1
1,1-Dichloroethene	<0.0010		0.0010	0.00039	mg/L			02/16/16 18:53	1
1,2-Dichloropropane	<0.0010		0.0010	0.00043	mg/L			02/16/16 18:53	1
1,3-Dichloropropene, Total	<0.0010		0.0010	0.00042	mg/L			02/16/16 18:53	1
Ethylbenzene	<0.00050		0.00050	0.00018	mg/L			02/16/16 18:53	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/L			02/16/16 18:53	1
Methyl Ethyl Ketone	<0.0050		0.0050	0.0021	mg/L			02/16/16 18:53	1
Methylene Chloride	<0.0050		0.0050	0.0016	mg/L			02/16/16 18:53	1
methyl isobutyl ketone	<0.0050		0.0050	0.0022	mg/L			02/16/16 18:53	1
Methyl tert-butyl ether	<0.0010		0.0010	0.00039	mg/L			02/16/16 18:53	1
Styrene	<0.0010		0.0010	0.00039	mg/L			02/16/16 18:53	1
1,1,2,2-Tetrachloroethane	<0.0010		0.0010	0.00040	mg/L			02/16/16 18:53	1
Tetrachloroethene	<0.0010		0.0010	0.00037	mg/L			02/16/16 18:53	1
Toluene	<0.00050		0.00050	0.00015	mg/L			02/16/16 18:53	1
trans-1,2-Dichloroethene	<0.0010		0.0010	0.00035	mg/L			02/16/16 18:53	1
trans-1,3-Dichloropropene	<0.0010		0.0010	0.00036	mg/L			02/16/16 18:53	1
1,1,1-Trichloroethane	<0.0010		0.0010	0.00038	mg/L			02/16/16 18:53	1
1,1,2-Trichloroethane	<0.0010		0.0010	0.00035	mg/L			02/16/16 18:53	1
Trichloroethene	<0.00050		0.00050	0.00016	mg/L			02/16/16 18:53	1
Vinyl acetate	<0.0020		0.0020	0.00091	mg/L			02/16/16 18:53	1
Vinyl chloride	<0.00050		0.00050	0.00020	mg/L			02/16/16 18:53	1
Xylenes, Total	<0.0010		0.0010	0.00022	mg/L			02/16/16 18:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		75 - 120		02/16/16 18:53	1
Dibromofluoromethane	94		75 - 120		02/16/16 18:53	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 125		02/16/16 18:53	1
Toluene-d8 (Surr)	101		75 - 120		02/16/16 18:53	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - VOC (Continued)

Lab Sample ID: LCS 500-323097/4

Matrix: Water

Analysis Batch: 323097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0557		mg/L		111	47 - 131
Benzene	0.0500	0.0434		mg/L		87	70 - 120
Bromodichloromethane	0.0500	0.0447		mg/L		89	70 - 127
Bromoform	0.0500	0.0417		mg/L		83	70 - 135
Bromomethane	0.0500	0.0404		mg/L		81	30 - 170
Carbon disulfide	0.0500	0.0364		mg/L		73	61 - 120
Carbon tetrachloride	0.0500	0.0421		mg/L		84	70 - 136
Chlorobenzene	0.0500	0.0439		mg/L		88	70 - 120
Chloroethane	0.0500	0.0441		mg/L		88	40 - 150
Chloroform	0.0500	0.0450		mg/L		90	70 - 120
Chloromethane	0.0500	0.0595		mg/L		119	45 - 140
cis-1,2-Dichloroethene	0.0500	0.0415		mg/L		83	70 - 120
Dibromochloromethane	0.0500	0.0476		mg/L		95	70 - 120
1,1-Dichloroethane	0.0500	0.0485		mg/L		97	70 - 127
1,2-Dichloroethane	0.0500	0.0507		mg/L		101	66 - 132
1,1-Dichloroethene	0.0500	0.0393		mg/L		79	68 - 121
1,2-Dichloropropane	0.0500	0.0497		mg/L		99	70 - 127
Ethylbenzene	0.0500	0.0434		mg/L		87	70 - 125
2-Hexanone	0.0500	0.0617		mg/L		123	53 - 140
Methyl Ethyl Ketone	0.0500	0.0645		mg/L		129	51 - 134
Methylene Chloride	0.0500	0.0412		mg/L		82	70 - 120
methyl isobutyl ketone	0.0500	0.0637		mg/L		127	53 - 135
Methyl tert-butyl ether	0.0500	0.0471		mg/L		94	65 - 120
Styrene	0.0500	0.0444		mg/L		89	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0445		mg/L		89	68 - 133
Tetrachloroethene	0.0500	0.0425		mg/L		85	70 - 129
Toluene	0.0500	0.0427		mg/L		85	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0400		mg/L		80	70 - 120
1,1,1-Trichloroethane	0.0500	0.0419		mg/L		84	70 - 125
1,1,2-Trichloroethane	0.0500	0.0473		mg/L		95	70 - 125
Trichloroethene	0.0500	0.0430		mg/L		86	70 - 122
Vinyl acetate	0.0500	0.0791	*	mg/L		158	30 - 150
Vinyl chloride	0.0500	0.0495		mg/L		99	63 - 127
Xylenes, Total	0.100	0.0847		mg/L		85	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		75 - 125
Toluene-d8 (Surr)	104		75 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322898/6

Matrix: Solid

Analysis Batch: 322898

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/15/16 23:28	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 23:28	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/15/16 23:28	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:28	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:28	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:28	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 23:28	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/15/16 23:28	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/15/16 23:28	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:28	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/15/16 23:28	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/15/16 23:28	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:28	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/15/16 23:28	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:28	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 23:28	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 23:28	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/15/16 23:28	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/15/16 23:28	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/15/16 23:28	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:28	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/15/16 23:28	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/15/16 23:28	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/15/16 23:28	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 23:28	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 23:28	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/15/16 23:28	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/15/16 23:28	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/15/16 23:28	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/15/16 23:28	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/15/16 23:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		02/15/16 23:28	1
Dibromofluoromethane	95		75 - 120		02/15/16 23:28	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134		02/15/16 23:28	1
Toluene-d8 (Surr)	101		75 - 122		02/15/16 23:28	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322898/4

Matrix: Solid

Analysis Batch: 322898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0565		mg/Kg		113	50 - 133
Benzene	0.0500	0.0556		mg/Kg		111	70 - 120
Bromodichloromethane	0.0500	0.0480		mg/Kg		96	69 - 120
Bromoform	0.0500	0.0452		mg/Kg		90	51 - 127
Bromomethane	0.0500	0.0400		mg/Kg		80	69 - 120
Carbon disulfide	0.0500	0.0501		mg/Kg		100	58 - 120
Carbon tetrachloride	0.0500	0.0405		mg/Kg		81	51 - 124
Chlorobenzene	0.0500	0.0502		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0650	*	mg/Kg		130	49 - 125
Chloroform	0.0500	0.0496		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0553		mg/Kg		111	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0501		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0484		mg/Kg		97	69 - 126
1,1-Dichloroethane	0.0500	0.0502		mg/Kg		100	70 - 120
1,2-Dichloroethane	0.0500	0.0423		mg/Kg		85	70 - 128
1,1-Dichloroethene	0.0500	0.0464		mg/Kg		93	67 - 120
1,2-Dichloropropane	0.0500	0.0531		mg/Kg		106	70 - 120
Ethylbenzene	0.0500	0.0529		mg/Kg		106	70 - 120
2-Hexanone	0.0500	0.0528		mg/Kg		106	50 - 150
2-Butanone (MEK)	0.0500	0.0548		mg/Kg		110	50 - 148
Methylene Chloride	0.0500	0.0537		mg/Kg		107	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0553		mg/Kg		111	50 - 150
Methyl tert-butyl ether	0.0500	0.0489		mg/Kg		98	70 - 120
Styrene	0.0500	0.0534		mg/Kg		107	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0551		mg/Kg		110	70 - 133
Tetrachloroethene	0.0500	0.0464		mg/Kg		93	70 - 120
Toluene	0.0500	0.0542		mg/Kg		108	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 120
1,1,1-Trichloroethane	0.0500	0.0428		mg/Kg		86	70 - 120
1,1,2-Trichloroethane	0.0500	0.0516		mg/Kg		103	70 - 120
Trichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
Vinyl acetate	0.0500	0.0484		mg/Kg		97	60 - 150
Vinyl chloride	0.0500	0.0484		mg/Kg		97	69 - 120
Xylenes, Total	0.100	0.103		mg/Kg		103	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 122
Dibromofluoromethane	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Lab Sample ID: LCSD 500-322898/5

Matrix: Solid

Analysis Batch: 322898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0643		mg/Kg		129	50 - 133	13	30
Benzene	0.0500	0.0572		mg/Kg		114	70 - 120	3	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322898/5
Matrix: Solid
Analysis Batch: 322898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	69 - 120	3	30
Bromoform	0.0500	0.0484		mg/Kg		97	51 - 127	7	30
Bromomethane	0.0500	0.0415		mg/Kg		83	69 - 120	3	30
Carbon disulfide	0.0500	0.0520		mg/Kg		104	58 - 120	4	30
Carbon tetrachloride	0.0500	0.0416		mg/Kg		83	51 - 124	3	30
Chlorobenzene	0.0500	0.0525		mg/Kg		105	70 - 120	5	30
Chloroethane	0.0500	0.0668	*	mg/Kg		134	49 - 125	3	30
Chloroform	0.0500	0.0511		mg/Kg		102	70 - 120	3	30
Chloromethane	0.0500	0.0575		mg/Kg		115	63 - 126	4	30
cis-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 120	3	30
Dibromochloromethane	0.0500	0.0504		mg/Kg		101	69 - 126	4	30
1,1-Dichloroethane	0.0500	0.0519		mg/Kg		104	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0447		mg/Kg		89	70 - 128	6	30
1,1-Dichloroethene	0.0500	0.0475		mg/Kg		95	67 - 120	2	30
1,2-Dichloropropane	0.0500	0.0551		mg/Kg		110	70 - 120	4	30
Ethylbenzene	0.0500	0.0548		mg/Kg		110	70 - 120	3	30
2-Hexanone	0.0500	0.0616		mg/Kg		123	50 - 150	15	30
2-Butanone (MEK)	0.0500	0.0613		mg/Kg		123	50 - 148	11	30
Methylene Chloride	0.0500	0.0552		mg/Kg		110	70 - 120	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0631		mg/Kg		126	50 - 150	13	30
Methyl tert-butyl ether	0.0500	0.0523		mg/Kg		105	70 - 120	7	30
Styrene	0.0500	0.0550		mg/Kg		110	70 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0585		mg/Kg		117	70 - 133	6	30
Tetrachloroethene	0.0500	0.0482		mg/Kg		96	70 - 120	4	30
Toluene	0.0500	0.0552		mg/Kg		110	70 - 120	2	30
trans-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120	2	30
1,1,1-Trichloroethane	0.0500	0.0437		mg/Kg		87	70 - 120	2	30
1,1,2-Trichloroethane	0.0500	0.0549		mg/Kg		110	70 - 120	6	30
Trichloroethene	0.0500	0.0521		mg/Kg		104	70 - 120	4	30
Vinyl acetate	0.0500	0.0533		mg/Kg		107	60 - 150	10	30
Vinyl chloride	0.0500	0.0506		mg/Kg		101	69 - 120	4	30
Xylenes, Total	0.100	0.105		mg/Kg		105	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	96		70 - 122
Dibromofluoromethane	87		75 - 120
1,2-Dichloroethane-d4 (Surr)	80		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Lab Sample ID: MB 500-322973/6
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 11:33	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 11:33	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 11:33	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322973/6
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 11:33	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 11:33	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 11:33	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 11:33	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 11:33	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 11:33	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 11:33	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 11:33	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 11:33	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 11:33	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 11:33	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 11:33	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 11:33	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 11:33	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 11:33	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 11:33	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 11:33	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		02/16/16 11:33	1
Dibromofluoromethane	90		75 - 120		02/16/16 11:33	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		02/16/16 11:33	1
Toluene-d8 (Surr)	102		75 - 122		02/16/16 11:33	1

Lab Sample ID: LCS 500-322973/4
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0586		mg/Kg		117	50 - 133
Benzene	0.0500	0.0557		mg/Kg		111	70 - 120
Bromodichloromethane	0.0500	0.0469		mg/Kg		94	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322973/4
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0433		mg/Kg		87	51 - 127
Bromomethane	0.0500	0.0394		mg/Kg		79	69 - 120
Carbon disulfide	0.0500	0.0498		mg/Kg		100	58 - 120
Carbon tetrachloride	0.0500	0.0403		mg/Kg		81	51 - 124
Chlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0551		mg/Kg		110	49 - 125
Chloroform	0.0500	0.0485		mg/Kg		97	70 - 120
Chloromethane	0.0500	0.0548		mg/Kg		110	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0460		mg/Kg		92	69 - 126
1,1-Dichloroethane	0.0500	0.0496		mg/Kg		99	70 - 120
1,2-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 128
1,1-Dichloroethene	0.0500	0.0459		mg/Kg		92	67 - 120
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 120
Ethylbenzene	0.0500	0.0527		mg/Kg		105	70 - 120
2-Hexanone	0.0500	0.0550		mg/Kg		110	50 - 150
2-Butanone (MEK)	0.0500	0.0554		mg/Kg		111	50 - 148
Methylene Chloride	0.0500	0.0522		mg/Kg		104	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0574		mg/Kg		115	50 - 150
Methyl tert-butyl ether	0.0500	0.0475		mg/Kg		95	70 - 120
Styrene	0.0500	0.0529		mg/Kg		106	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0523		mg/Kg		105	70 - 133
Tetrachloroethene	0.0500	0.0471		mg/Kg		94	70 - 120
Toluene	0.0500	0.0531		mg/Kg		106	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
1,1,1-Trichloroethane	0.0500	0.0423		mg/Kg		85	70 - 120
1,1,2-Trichloroethane	0.0500	0.0506		mg/Kg		101	70 - 120
Trichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120
Vinyl acetate	0.0500	0.0535		mg/Kg		107	60 - 150
Vinyl chloride	0.0500	0.0490		mg/Kg		98	69 - 120
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 122
Dibromofluoromethane	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Lab Sample ID: LCSD 500-322973/5
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0558		mg/Kg		112	50 - 133	5	30
Benzene	0.0500	0.0590		mg/Kg		118	70 - 120	6	30
Bromodichloromethane	0.0500	0.0502		mg/Kg		100	69 - 120	7	30
Bromoform	0.0500	0.0478		mg/Kg		96	51 - 127	10	30
Bromomethane	0.0500	0.0485		mg/Kg		97	69 - 120	21	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322973/5
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	0.0500	0.0524		mg/Kg		105	58 - 120	5	30
Carbon tetrachloride	0.0500	0.0426		mg/Kg		85	51 - 124	6	30
Chlorobenzene	0.0500	0.0538		mg/Kg		108	70 - 120	8	30
Chloroethane	0.0500	0.0672	*	mg/Kg		134	49 - 125	20	30
Chloroform	0.0500	0.0511		mg/Kg		102	70 - 120	5	30
Chloromethane	0.0500	0.0587		mg/Kg		117	63 - 126	7	30
cis-1,2-Dichloroethene	0.0500	0.0523		mg/Kg		105	70 - 120	5	30
Dibromochloromethane	0.0500	0.0513		mg/Kg		103	69 - 126	11	30
1,1-Dichloroethane	0.0500	0.0530		mg/Kg		106	70 - 120	7	30
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 128	5	30
1,1-Dichloroethene	0.0500	0.0483		mg/Kg		97	67 - 120	5	30
1,2-Dichloropropane	0.0500	0.0562		mg/Kg		112	70 - 120	8	30
Ethylbenzene	0.0500	0.0558		mg/Kg		112	70 - 120	6	30
2-Hexanone	0.0500	0.0637		mg/Kg		127	50 - 150	15	30
2-Butanone (MEK)	0.0500	0.0588		mg/Kg		118	50 - 148	6	30
Methylene Chloride	0.0500	0.0552		mg/Kg		110	70 - 120	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0638		mg/Kg		128	50 - 150	11	30
Methyl tert-butyl ether	0.0500	0.0516		mg/Kg		103	70 - 120	8	30
Styrene	0.0500	0.0560		mg/Kg		112	70 - 120	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0597		mg/Kg		119	70 - 133	13	30
Tetrachloroethene	0.0500	0.0489		mg/Kg		98	70 - 120	4	30
Toluene	0.0500	0.0568		mg/Kg		114	70 - 120	7	30
trans-1,2-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 120	7	30
1,1,1-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 120	6	30
1,1,2-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 120	9	30
Trichloroethene	0.0500	0.0528		mg/Kg		106	70 - 120	7	30
Vinyl acetate	0.0500	0.0567		mg/Kg		113	60 - 150	6	30
Vinyl chloride	0.0500	0.0525		mg/Kg		105	69 - 120	7	30
Xylenes, Total	0.100	0.107		mg/Kg		107	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	96		70 - 122
Dibromofluoromethane	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322157/1-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		02/08/16 18:05	02/17/16 13:14	1
1,4-Dichlorobenzene	<0.0016		0.0016	0.00017	mg/L		02/08/16 18:05	02/17/16 13:14	1
1,2-Dichlorobenzene	<0.0016		0.0016	0.00020	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,2'-oxybis[1-chloropropane]	<0.0016		0.0016	0.00030	mg/L		02/08/16 18:05	02/17/16 13:14	1
1,2,4-Trichlorobenzene	<0.0016		0.0016	0.00019	mg/L		02/08/16 18:05	02/17/16 13:14	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322157/1-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322157

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dimethylphenol	<0.0080		0.0080	0.0014	mg/L		02/08/16 18:05	02/17/16 13:14	1
2-Chlorophenol	<0.0040		0.0040	0.00045	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,4-Dichlorophenol	<0.0080		0.0080	0.0021	mg/L		02/08/16 18:05	02/17/16 13:14	1
2-Methylphenol	<0.0016		0.0016	0.00024	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,4,6-Trichlorophenol	<0.0040		0.0040	0.00057	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,4,5-Trichlorophenol	<0.0080		0.0080	0.0021	mg/L		02/08/16 18:05	02/17/16 13:14	1
2-Methylnaphthalene	<0.00040		0.00040	0.000052	mg/L		02/08/16 18:05	02/17/16 13:14	1
2-Nitroaniline	<0.0040		0.0040	0.0010	mg/L		02/08/16 18:05	02/17/16 13:14	1
2-Chloronaphthalene	<0.0016		0.0016	0.00019	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,6-Dinitrotoluene	<0.00040		0.00040	0.000059	mg/L		02/08/16 18:05	02/17/16 13:14	1
4-Chloro-3-methylphenol	<0.0080		0.0080	0.0018	mg/L		02/08/16 18:05	02/17/16 13:14	1
2-Nitrophenol	<0.0080		0.0080	0.0020	mg/L		02/08/16 18:05	02/17/16 13:14	1
4-Chloroaniline	<0.0080		0.0080	0.0016	mg/L		02/08/16 18:05	02/17/16 13:14	1
3-Nitroaniline	<0.0080		0.0080	0.0014	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,4-Dinitrophenol	<0.016		0.016	0.0069	mg/L		02/08/16 18:05	02/17/16 13:14	1
2,4-Dinitrotoluene	<0.00080		0.00080	0.00020	mg/L		02/08/16 18:05	02/17/16 13:14	1
Acenaphthylene	<0.00080		0.00080	0.00021	mg/L		02/08/16 18:05	02/17/16 13:14	1
Acenaphthene	<0.00080		0.00080	0.00025	mg/L		02/08/16 18:05	02/17/16 13:14	1
4-Nitrophenol	<0.016		0.016	0.0059	mg/L		02/08/16 18:05	02/17/16 13:14	1
4-Nitroaniline	<0.0080		0.0080	0.0013	mg/L		02/08/16 18:05	02/17/16 13:14	1
4-Bromophenyl phenyl ether	<0.0040		0.0040	0.00043	mg/L		02/08/16 18:05	02/17/16 13:14	1
Bis(2-chloroethoxy)methane	<0.0016		0.0016	0.00023	mg/L		02/08/16 18:05	02/17/16 13:14	1
Bis(2-chloroethyl)ether	<0.0016		0.0016	0.00023	mg/L		02/08/16 18:05	02/17/16 13:14	1
4-Chlorophenyl phenyl ether	<0.0040		0.0040	0.00051	mg/L		02/08/16 18:05	02/17/16 13:14	1
4,6-Dinitro-2-methylphenol	<0.016		0.016	0.0047	mg/L		02/08/16 18:05	02/17/16 13:14	1
Anthracene	<0.00080		0.00080	0.00027	mg/L		02/08/16 18:05	02/17/16 13:14	1
Dibenzofuran	<0.0016		0.0016	0.00021	mg/L		02/08/16 18:05	02/17/16 13:14	1
Carbazole	<0.0040		0.0040	0.00028	mg/L		02/08/16 18:05	02/17/16 13:14	1
Diethyl phthalate	<0.0016		0.0016	0.00029	mg/L		02/08/16 18:05	02/17/16 13:14	1
Dimethyl phthalate	<0.0016		0.0016	0.00025	mg/L		02/08/16 18:05	02/17/16 13:14	1
Di-n-butyl phthalate	0.000689	J	0.0040	0.00058	mg/L		02/08/16 18:05	02/17/16 13:14	1
Butyl benzyl phthalate	<0.0016		0.0016	0.00038	mg/L		02/08/16 18:05	02/17/16 13:14	1
Fluoranthene	<0.00080		0.00080	0.00036	mg/L		02/08/16 18:05	02/17/16 13:14	1
Benzo[a]anthracene	<0.00013		0.00013	0.000045	mg/L		02/08/16 18:05	02/17/16 13:14	1
Fluorene	<0.00080		0.00080	0.00020	mg/L		02/08/16 18:05	02/17/16 13:14	1
Chrysene	<0.00040		0.00040	0.000055	mg/L		02/08/16 18:05	02/17/16 13:14	1
Hexachlorobenzene	<0.00040		0.00040	0.000064	mg/L		02/08/16 18:05	02/17/16 13:14	1
3,3'-Dichlorobenzidine	<0.0040		0.0040	0.0014	mg/L		02/08/16 18:05	02/17/16 13:14	1
Hexachlorobutadiene	<0.0040		0.0040	0.00041	mg/L		02/08/16 18:05	02/17/16 13:14	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080	0.0014	mg/L		02/08/16 18:05	02/17/16 13:14	1
Hexachlorocyclopentadiene	<0.016		0.016	0.0051	mg/L		02/08/16 18:05	02/17/16 13:14	1
Di-n-octyl phthalate	<0.0080		0.0080	0.00084	mg/L		02/08/16 18:05	02/17/16 13:14	1
Hexachloroethane	<0.0040		0.0040	0.00048	mg/L		02/08/16 18:05	02/17/16 13:14	1
Benzo[b]fluoranthene	<0.00016		0.00016	0.000065	mg/L		02/08/16 18:05	02/17/16 13:14	1
Benzo[k]fluoranthene	<0.00016		0.00016	0.000051	mg/L		02/08/16 18:05	02/17/16 13:14	1
Isophorone	<0.0016		0.0016	0.00030	mg/L		02/08/16 18:05	02/17/16 13:14	1
Benzo[a]pyrene	<0.00016		0.00016	0.000079	mg/L		02/08/16 18:05	02/17/16 13:14	1
Naphthalene	<0.00080		0.00080	0.00025	mg/L		02/08/16 18:05	02/17/16 13:14	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322157/1-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.00016		0.00016	0.000060	mg/L		02/08/16 18:05	02/17/16 13:14	1
Nitrobenzene	<0.00080		0.00080	0.00036	mg/L		02/08/16 18:05	02/17/16 13:14	1
Dibenz(a,h)anthracene	<0.00024		0.00024	0.000041	mg/L		02/08/16 18:05	02/17/16 13:14	1
Benzo[g,h,i]perylene	<0.00080		0.00080	0.00030	mg/L		02/08/16 18:05	02/17/16 13:14	1
N-Nitrosodi-n-propylamine	<0.00040		0.00040	0.00012	mg/L		02/08/16 18:05	02/17/16 13:14	1
N-Nitrosodiphenylamine	<0.00080		0.00080	0.00030	mg/L		02/08/16 18:05	02/17/16 13:14	1
Pentachlorophenol	<0.016		0.016	0.0032	mg/L		02/08/16 18:05	02/17/16 13:14	1
Phenanthrene	<0.00080		0.00080	0.00024	mg/L		02/08/16 18:05	02/17/16 13:14	1
Phenol	<0.0040		0.0040	0.00054	mg/L		02/08/16 18:05	02/17/16 13:14	1
Pyrene	<0.00080		0.00080	0.00034	mg/L		02/08/16 18:05	02/17/16 13:14	1
3 & 4 Methylphenol	<0.0016		0.0016	0.00036	mg/L		02/08/16 18:05	02/17/16 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		32 - 110	02/08/16 18:05	02/17/16 13:14	1
Nitrobenzene-d5	72		47 - 134	02/08/16 18:05	02/17/16 13:14	1
2-Fluorobiphenyl	71		41 - 132	02/08/16 18:05	02/17/16 13:14	1
2,4,6-Tribromophenol	89		53 - 150	02/08/16 18:05	02/17/16 13:14	1
Phenol-d5	46		25 - 100	02/08/16 18:05	02/17/16 13:14	1
Terphenyl-d14	103		59 - 150	02/08/16 18:05	02/17/16 13:14	1

Lab Sample ID: LCS 500-322157/2-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	0.0320	0.0162		mg/L		51	32 - 110
1,4-Dichlorobenzene	0.0320	0.0167		mg/L		52	32 - 110
1,2-Dichlorobenzene	0.0320	0.0169		mg/L		53	34 - 110
2,2'-oxybis[1-chloropropane]	0.0320	0.0148		mg/L		46	29 - 110
1,2,4-Trichlorobenzene	0.0320	0.0178		mg/L		56	33 - 110
2,4-Dimethylphenol	0.0320	0.0154		mg/L		48	44 - 110
2-Chlorophenol	0.0320	0.0196		mg/L		61	54 - 110
2,4-Dichlorophenol	0.0320	0.0210		mg/L		66	59 - 110
2-Methylphenol	0.0320	0.0192		mg/L		60	53 - 110
2,4,6-Trichlorophenol	0.0320	0.0227		mg/L		71	59 - 112
2,4,5-Trichlorophenol	0.0320	0.0255		mg/L		80	61 - 115
2-Methylnaphthalene	0.0320	0.0184		mg/L		58	37 - 110
2-Nitroaniline	0.0320	0.0229		mg/L		71	49 - 135
2-Chloronaphthalene	0.0320	0.0202		mg/L		63	43 - 110
2,6-Dinitrotoluene	0.0320	0.0252		mg/L		79	64 - 114
4-Chloro-3-methylphenol	0.0320	0.0224		mg/L		70	56 - 117
2-Nitrophenol	0.0320	0.0237		mg/L		74	52 - 110
4-Chloroaniline	0.0320	0.0162		mg/L		51	10 - 150
3-Nitroaniline	0.0320	0.0242		mg/L		76	50 - 125
2,4-Dinitrophenol	0.0640	0.0318		mg/L		50	45 - 123
2,4-Dinitrotoluene	0.0320	0.0293		mg/L		91	60 - 117
Acenaphthylene	0.0320	0.0213		mg/L		66	48 - 110
Acenaphthene	0.0320	0.0206		mg/L		64	44 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322157/2-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	0.0640	0.0319		mg/L		50	31 - 110
4-Nitroaniline	0.0320	0.0271		mg/L		85	51 - 121
4-Bromophenyl phenyl ether	0.0320	0.0247		mg/L		77	55 - 110
Bis(2-chloroethoxy)methane	0.0320	0.0206		mg/L		64	52 - 110
Bis(2-chloroethyl)ether	0.0320	0.0194		mg/L		61	40 - 110
4-Chlorophenyl phenyl ether	0.0320	0.0238		mg/L		74	47 - 110
4,6-Dinitro-2-methylphenol	0.0640	0.0392		mg/L		61	58 - 122
Anthracene	0.0320	0.0237		mg/L		74	60 - 115
Dibenzofuran	0.0320	0.0221		mg/L		69	54 - 110
Carbazole	0.0320	0.0291		mg/L		91	61 - 129
Diethyl phthalate	0.0320	0.0257		mg/L		80	60 - 118
Dimethyl phthalate	0.0320	0.0245		mg/L		77	65 - 110
Di-n-butyl phthalate	0.0320	0.0269		mg/L		84	53 - 128
Butyl benzyl phthalate	0.0320	0.0303		mg/L		95	48 - 133
Fluoranthene	0.0320	0.0261		mg/L		81	64 - 120
Benzo[a]anthracene	0.0320	0.0264		mg/L		82	66 - 120
Fluorene	0.0320	0.0221		mg/L		69	53 - 115
Chrysene	0.0320	0.0269		mg/L		84	65 - 120
Hexachlorobenzene	0.0320	0.0258		mg/L		81	52 - 118
3,3'-Dichlorobenzidine	0.0320	0.0279		mg/L		87	68 - 128
Hexachlorobutadiene	0.0320	0.0177		mg/L		55	21 - 110
Bis(2-ethylhexyl) phthalate	0.0320	0.0314		mg/L		98	46 - 137
Hexachlorocyclopentadiene	0.0320	0.00908	J	mg/L		28	11 - 110
Di-n-octyl phthalate	0.0320	0.0250		mg/L		78	59 - 125
Hexachloroethane	0.0320	0.0162		mg/L		51	28 - 110
Benzo[b]fluoranthene	0.0320	0.0348		mg/L		109	63 - 125
Benzo[k]fluoranthene	0.0320	0.0366		mg/L		115	58 - 125
Isophorone	0.0320	0.0199		mg/L		62	46 - 115
Benzo[a]pyrene	0.0320	0.0301		mg/L		94	63 - 125
Naphthalene	0.0320	0.0177		mg/L		55	38 - 110
Indeno[1,2,3-cd]pyrene	0.0320	0.0175		mg/L		55	55 - 125
Nitrobenzene	0.0320	0.0203		mg/L		63	43 - 110
Dibenz(a,h)anthracene	0.0320	0.0189		mg/L		59	55 - 125
Benzo[g,h,i]perylene	0.0320	0.0148	*	mg/L		46	52 - 125
N-Nitrosodi-n-propylamine	0.0320	0.0200		mg/L		63	49 - 110
N-Nitrosodiphenylamine	0.0320	0.0237		mg/L		74	59 - 110
Pentachlorophenol	0.0640	0.0542		mg/L		85	33 - 124
Phenanthrene	0.0320	0.0240		mg/L		75	60 - 115
Phenol	0.0320	0.0121		mg/L		38	33 - 100
Pyrene	0.0320	0.0289		mg/L		90	60 - 115
3 & 4 Methylphenol	0.0320	0.0188		mg/L		59	58 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	51		32 - 110
Nitrobenzene-d5	68		47 - 134
2-Fluorobiphenyl	70		41 - 132
2,4,6-Tribromophenol	102		53 - 150
Phenol-d5	41		25 - 100

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322157/2-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	107		59 - 150

Lab Sample ID: LCSD 500-322157/3-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	0.0320	0.0185		mg/L		58	32 - 110	13	20
1,4-Dichlorobenzene	0.0320	0.0192		mg/L		60	32 - 110	14	20
1,2-Dichlorobenzene	0.0320	0.0194		mg/L		61	34 - 110	14	20
2,2'-oxybis[1-chloropropane]	0.0320	0.0174		mg/L		54	29 - 110	16	20
1,2,4-Trichlorobenzene	0.0320	0.0204		mg/L		64	33 - 110	13	20
2,4-Dimethylphenol	0.0320	0.0191	*	mg/L		60	44 - 110	21	20
2-Chlorophenol	0.0320	0.0238		mg/L		74	54 - 110	20	20
2,4-Dichlorophenol	0.0320	0.0250		mg/L		78	59 - 110	18	20
2-Methylphenol	0.0320	0.0237	*	mg/L		74	53 - 110	21	20
2,4,6-Trichlorophenol	0.0320	0.0271		mg/L		85	59 - 112	18	20
2,4,5-Trichlorophenol	0.0320	0.0292		mg/L		91	61 - 115	14	20
2-Methylnaphthalene	0.0320	0.0210		mg/L		66	37 - 110	13	20
2-Nitroaniline	0.0320	0.0261		mg/L		82	49 - 135	13	20
2-Chloronaphthalene	0.0320	0.0235		mg/L		73	43 - 110	15	20
2,6-Dinitrotoluene	0.0320	0.0292		mg/L		91	64 - 114	15	20
4-Chloro-3-methylphenol	0.0320	0.0264		mg/L		83	56 - 117	17	20
2-Nitrophenol	0.0320	0.0289		mg/L		90	52 - 110	20	20
4-Chloroaniline	0.0320	0.0177		mg/L		55	10 - 150	9	20
3-Nitroaniline	0.0320	0.0259		mg/L		81	50 - 125	7	20
2,4-Dinitrophenol	0.0640	0.0437	*	mg/L		68	45 - 123	32	20
2,4-Dinitrotoluene	0.0320	0.0321		mg/L		100	60 - 117	9	20
Acenaphthylene	0.0320	0.0246		mg/L		77	48 - 110	14	20
Acenaphthene	0.0320	0.0235		mg/L		74	44 - 110	13	20
4-Nitrophenol	0.0640	0.0326		mg/L		51	31 - 110	2	20
4-Nitroaniline	0.0320	0.0266		mg/L		83	51 - 121	2	20
4-Bromophenyl phenyl ether	0.0320	0.0273		mg/L		85	55 - 110	10	20
Bis(2-chloroethoxy)methane	0.0320	0.0240		mg/L		75	52 - 110	15	20
Bis(2-chloroethyl)ether	0.0320	0.0232		mg/L		73	40 - 110	18	20
4-Chlorophenyl phenyl ether	0.0320	0.0272		mg/L		85	47 - 110	13	20
4,6-Dinitro-2-methylphenol	0.0640	0.0476		mg/L		74	58 - 122	20	20
Anthracene	0.0320	0.0250		mg/L		78	60 - 115	5	20
Dibenzofuran	0.0320	0.0254		mg/L		79	54 - 110	14	20
Carbazole	0.0320	0.0294		mg/L		92	61 - 129	1	20
Diethyl phthalate	0.0320	0.0274		mg/L		86	60 - 118	6	20
Dimethyl phthalate	0.0320	0.0275		mg/L		86	65 - 110	12	20
Di-n-butyl phthalate	0.0320	0.0275		mg/L		86	53 - 128	2	20
Butyl benzyl phthalate	0.0320	0.0305		mg/L		95	48 - 133	1	20
Fluoranthene	0.0320	0.0270		mg/L		84	64 - 120	4	20
Benzo[a]anthracene	0.0320	0.0267		mg/L		84	66 - 120	1	20
Fluorene	0.0320	0.0249		mg/L		78	53 - 115	12	20
Chrysene	0.0320	0.0275		mg/L		86	65 - 120	2	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322157/3-A
Matrix: Water
Analysis Batch: 323158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	0.0320	0.0281		mg/L		88	52 - 118	8	20
3,3'-Dichlorobenzidine	0.0320	0.0257		mg/L		80	68 - 128	8	20
Hexachlorobutadiene	0.0320	0.0201		mg/L		63	21 - 110	13	20
Bis(2-ethylhexyl) phthalate	0.0320	0.0315		mg/L		98	46 - 137	0	20
Hexachlorocyclopentadiene	0.0320	0.0113	J *	mg/L		35	11 - 110	22	20
Di-n-octyl phthalate	0.0320	0.0257		mg/L		80	59 - 125	2	20
Hexachloroethane	0.0320	0.0188		mg/L		59	28 - 110	15	20
Benzo[b]fluoranthene	0.0320	0.0350		mg/L		109	63 - 125	1	20
Benzo[k]fluoranthene	0.0320	0.0349		mg/L		109	58 - 125	5	20
Isophorone	0.0320	0.0234		mg/L		73	46 - 115	16	20
Benzo[a]pyrene	0.0320	0.0305		mg/L		95	63 - 125	1	20
Naphthalene	0.0320	0.0204		mg/L		64	38 - 110	14	20
Indeno[1,2,3-cd]pyrene	0.0320	0.0170	*	mg/L		53	55 - 125	3	20
Nitrobenzene	0.0320	0.0242		mg/L		76	43 - 110	18	20
Dibenz(a,h)anthracene	0.0320	0.0194		mg/L		61	55 - 125	3	20
Benzo[g,h,i]perylene	0.0320	0.0152	*	mg/L		47	52 - 125	2	20
N-Nitrosodi-n-propylamine	0.0320	0.0235		mg/L		73	49 - 110	16	20
N-Nitrosodiphenylamine	0.0320	0.0261		mg/L		82	59 - 110	10	20
Pentachlorophenol	0.0640	0.0564		mg/L		88	33 - 124	4	20
Phenanthrene	0.0320	0.0254		mg/L		79	60 - 115	6	20
Phenol	0.0320	0.0155	*	mg/L		48	33 - 100	25	20
Pyrene	0.0320	0.0292		mg/L		91	60 - 115	1	20
3 & 4 Methylphenol	0.0320	0.0225		mg/L		70	58 - 110	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorophenol	62		32 - 110
Nitrobenzene-d5	79		47 - 134
2-Fluorobiphenyl	80		41 - 132
2,4,6-Tribromophenol	112		53 - 150
Phenol-d5	51		25 - 100
Terphenyl-d14	105		59 - 150

Lab Sample ID: MB 500-322276/1-A
Matrix: Solid
Analysis Batch: 323052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/10/16 07:10	02/16/16 15:55	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322276/1-A
Matrix: Solid
Analysis Batch: 323052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/10/16 07:10	02/16/16 15:55	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322276/1-A
Matrix: Solid
Analysis Batch: 323052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/10/16 07:10	02/16/16 15:55	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/10/16 07:10	02/16/16 15:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		25 - 110	02/10/16 07:10	02/16/16 15:55	1
Nitrobenzene-d5	104		25 - 115	02/10/16 07:10	02/16/16 15:55	1
2-Fluorobiphenyl	94		25 - 119	02/10/16 07:10	02/16/16 15:55	1
2,4,6-Tribromophenol	77		35 - 137	02/10/16 07:10	02/16/16 15:55	1
Phenol-d5	112	X	31 - 110	02/10/16 07:10	02/16/16 15:55	1
Terphenyl-d14	105		36 - 134	02/10/16 07:10	02/16/16 15:55	1

Lab Sample ID: LCS 500-322276/2-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	1.04		mg/Kg		78	44 - 110
1,4-Dichlorobenzene	1.33	1.06		mg/Kg		79	45 - 110
1,2-Dichlorobenzene	1.33	1.07		mg/Kg		80	48 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.871		mg/Kg		65	30 - 115
1,2,4-Trichlorobenzene	1.33	1.11		mg/Kg		83	49 - 110
2,4-Dimethylphenol	1.33	1.03		mg/Kg		77	49 - 110
2-Chlorophenol	1.33	1.10		mg/Kg		83	47 - 114
2,4-Dichlorophenol	1.33	1.11		mg/Kg		83	53 - 113
2-Methylphenol	1.33	1.08		mg/Kg		81	44 - 110
2,4,6-Trichlorophenol	1.33	1.09		mg/Kg		82	44 - 118
2,4,5-Trichlorophenol	1.33	1.18		mg/Kg		88	41 - 120
2-Methylnaphthalene	1.33	1.05		mg/Kg		78	48 - 110
2-Nitroaniline	1.33	1.04		mg/Kg		78	42 - 122
2-Chloronaphthalene	1.33	1.06		mg/Kg		79	52 - 114
2,6-Dinitrotoluene	1.33	1.13		mg/Kg		85	54 - 117
4-Chloro-3-methylphenol	1.33	1.04		mg/Kg		78	52 - 111
2-Nitrophenol	1.33	1.26		mg/Kg		95	48 - 113
4-Chloroaniline	1.33	0.783		mg/Kg		59	16 - 118
3-Nitroaniline	1.33	0.698		mg/Kg		52	36 - 131
2,4-Dinitrophenol	2.67	1.54		mg/Kg		58	10 - 110
2,4-Dinitrotoluene	1.33	1.25		mg/Kg		93	53 - 122
Acenaphthylene	1.33	1.05		mg/Kg		79	49 - 110
Acenaphthene	1.33	0.994		mg/Kg		75	46 - 110
4-Nitrophenol	2.67	1.96		mg/Kg		73	10 - 157
4-Nitroaniline	1.33	1.23		mg/Kg		92	28 - 157
4-Bromophenyl phenyl ether	1.33	1.06		mg/Kg		79	55 - 113
Bis(2-chloroethoxy)methane	1.33	1.05		mg/Kg		79	42 - 110
Bis(2-chloroethyl)ether	1.33	1.08		mg/Kg		81	32 - 110
4-Chlorophenyl phenyl ether	1.33	1.11		mg/Kg		83	53 - 117

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322276/2-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,6-Dinitro-2-methylphenol	2.67	1.88		mg/Kg		70	10 - 110
Anthracene	1.33	1.00		mg/Kg		75	48 - 118
Dibenzofuran	1.33	1.05		mg/Kg		78	51 - 119
Carbazole	1.33	1.18		mg/Kg		89	26 - 188
Diethyl phthalate	1.33	1.07		mg/Kg		80	50 - 128
Dimethyl phthalate	1.33	1.07		mg/Kg		80	56 - 113
Di-n-butyl phthalate	1.33	1.05		mg/Kg		79	50 - 128
Butyl benzyl phthalate	1.33	1.04		mg/Kg		78	49 - 121
Fluoranthene	1.33	1.04		mg/Kg		78	48 - 128
Benzo[a]anthracene	1.33	1.01		mg/Kg		76	49 - 121
Fluorene	1.33	1.02		mg/Kg		76	47 - 121
Chrysene	1.33	1.03		mg/Kg		77	45 - 118
Hexachlorobenzene	1.33	1.08		mg/Kg		81	54 - 114
3,3'-Dichlorobenzidine	1.33	0.912		mg/Kg		68	26 - 128
Hexachlorobutadiene	1.33	1.13		mg/Kg		85	47 - 114
Bis(2-ethylhexyl) phthalate	1.33	1.03		mg/Kg		77	47 - 133
Hexachlorocyclopentadiene	1.33	0.923		mg/Kg		69	10 - 110
Di-n-octyl phthalate	1.33	1.07		mg/Kg		80	46 - 138
Hexachloroethane	1.33	1.12		mg/Kg		84	44 - 110
Benzo[b]fluoranthene	1.33	1.09		mg/Kg		82	54 - 122
Benzo[k]fluoranthene	1.33	1.08		mg/Kg		81	44 - 137
Isophorone	1.33	1.00		mg/Kg		75	35 - 110
Benzo[a]pyrene	1.33	1.07		mg/Kg		81	53 - 122
Naphthalene	1.33	1.04		mg/Kg		78	48 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.10		mg/Kg		83	49 - 132
Nitrobenzene	1.33	1.10		mg/Kg		82	35 - 113
Dibenz(a,h)anthracene	1.33	1.12		mg/Kg		84	48 - 134
Benzo[g,h,i]perylene	1.33	1.04		mg/Kg		78	52 - 125
N-Nitrosodi-n-propylamine	1.33	1.06		mg/Kg		80	24 - 123
N-Nitrosodiphenylamine	1.33	1.03		mg/Kg		77	52 - 111
Pentachlorophenol	2.67	2.14		mg/Kg		80	10 - 124
Phenanthrene	1.33	0.979		mg/Kg		73	48 - 121
Phenol	1.33	1.05		mg/Kg		78	41 - 110
Pyrene	1.33	1.00		mg/Kg		75	46 - 114
3 & 4 Methylphenol	1.33	1.09		mg/Kg		81	37 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	83		25 - 110
Nitrobenzene-d5	86		25 - 115
2-Fluorobiphenyl	78		25 - 119
2,4,6-Tribromophenol	99		35 - 137
Phenol-d5	82		31 - 110
Terphenyl-d14	83		36 - 134

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107297-1 MS

Matrix: Solid

Analysis Batch: 323052

Client Sample ID: 2746-02-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 322276

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,3-Dichlorobenzene	<0.19	F1	1.45	1.51		mg/Kg	☼	104	44 - 110
1,4-Dichlorobenzene	<0.19	F1	1.45	1.57		mg/Kg	☼	108	45 - 110
1,2-Dichlorobenzene	<0.19	F1	1.45	1.57		mg/Kg	☼	108	48 - 110
2,2'-oxybis[1-chloropropane]	<0.19		1.45	1.47		mg/Kg	☼	101	30 - 115
1,2,4-Trichlorobenzene	<0.19	F1	1.45	1.53		mg/Kg	☼	105	49 - 110
2,4-Dimethylphenol	<0.37	F1	1.45	1.57		mg/Kg	☼	108	49 - 110
2-Chlorophenol	<0.19	F1	1.45	1.59		mg/Kg	☼	109	47 - 114
2,4-Dichlorophenol	<0.37	F1	1.45	1.64		mg/Kg	☼	113	53 - 113
2-Methylphenol	<0.19	F1	1.45	1.86	F1	mg/Kg	☼	128	44 - 110
2,4,6-Trichlorophenol	<0.37		1.45	1.36		mg/Kg	☼	94	44 - 118
2,4,5-Trichlorophenol	<0.37		1.45	1.33		mg/Kg	☼	92	41 - 120
2-Methylnaphthalene	<0.037	F1	1.45	1.61	F1	mg/Kg	☼	111	48 - 110
2-Nitroaniline	<0.19		1.45	1.52		mg/Kg	☼	105	42 - 122
2-Chloronaphthalene	<0.19		1.45	1.39		mg/Kg	☼	96	52 - 114
2,6-Dinitrotoluene	<0.19		1.45	1.32		mg/Kg	☼	91	54 - 117
4-Chloro-3-methylphenol	<0.37	F1	1.45	1.62	F1	mg/Kg	☼	112	52 - 111
2-Nitrophenol	<0.37		1.45	1.40		mg/Kg	☼	96	48 - 113
4-Chloroaniline	<0.74		1.45	1.30		mg/Kg	☼	90	16 - 118
3-Nitroaniline	<0.37		1.45	1.61		mg/Kg	☼	111	36 - 131
2,4-Dinitrophenol	<0.74	F1	2.90	<0.73	F1	mg/Kg	☼	0	10 - 110
2,4-Dinitrotoluene	<0.19		1.45	1.22		mg/Kg	☼	84	53 - 122
Acenaphthylene	<0.037		1.45	1.42		mg/Kg	☼	98	49 - 110
Acenaphthene	0.010	J	1.45	1.32		mg/Kg	☼	90	46 - 110
4-Nitrophenol	<0.74		2.90	2.68		mg/Kg	☼	92	10 - 157
4-Nitroaniline	<0.37		1.45	1.45		mg/Kg	☼	100	28 - 157
4-Bromophenyl phenyl ether	<0.19	F1	1.45	1.69	F1	mg/Kg	☼	116	55 - 113
Bis(2-chloroethoxy)methane	<0.19	F1	1.45	1.70	F1	mg/Kg	☼	117	42 - 110
Bis(2-chloroethyl)ether	<0.19	F1	1.45	1.96	F1	mg/Kg	☼	135	32 - 110
4-Chlorophenyl phenyl ether	<0.19		1.45	1.48		mg/Kg	☼	102	53 - 117
4,6-Dinitro-2-methylphenol	<0.74	F1	2.90	<0.73	F1	mg/Kg	☼	0	10 - 110
Anthracene	0.031	J	1.45	1.52		mg/Kg	☼	103	48 - 118
Dibenzofuran	<0.19		1.45	1.42		mg/Kg	☼	98	51 - 119
Carbazole	<0.19		1.45	1.95		mg/Kg	☼	134	26 - 188
Diethyl phthalate	<0.19		1.45	1.56		mg/Kg	☼	107	50 - 128
Dimethyl phthalate	<0.19		1.45	1.48		mg/Kg	☼	102	56 - 113
Di-n-butyl phthalate	<0.19		1.45	1.77		mg/Kg	☼	122	50 - 128
Butyl benzyl phthalate	<0.19	F1	1.45	2.68	E F1	mg/Kg	☼	185	49 - 121
Fluoranthene	0.25		1.45	1.58		mg/Kg	☼	92	48 - 128
Benzo[a]anthracene	0.12		1.45	1.58		mg/Kg	☼	100	49 - 121
Fluorene	0.011	J	1.45	1.41		mg/Kg	☼	97	47 - 121
Chrysene	0.16		1.45	1.68		mg/Kg	☼	105	45 - 118
Hexachlorobenzene	<0.074	F1	1.45	1.64		mg/Kg	☼	113	54 - 114
3,3'-Dichlorobenzidine	<0.19		1.45	0.496		mg/Kg	☼	34	26 - 128
Hexachlorobutadiene	<0.19	F1	1.45	1.67	F1	mg/Kg	☼	115	47 - 114
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.45	2.66	E F1	mg/Kg	☼	183	47 - 133
Hexachlorocyclopentadiene	<0.74	F1	1.45	<0.73	F1	mg/Kg	☼	0	10 - 110
Di-n-octyl phthalate	<0.19		1.45	1.14		mg/Kg	☼	78	46 - 138
Hexachloroethane	<0.19		1.45	1.14		mg/Kg	☼	78	44 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107297-1 MS

Matrix: Solid

Analysis Batch: 323052

Client Sample ID: 2746-02-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 322276

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzo[b]fluoranthene	0.20	F1	1.45	2.11	F1	mg/Kg	☼	132	54 - 122	
Benzo[k]fluoranthene	0.058	F1	1.45	2.06	F1	mg/Kg	☼	138	44 - 137	
Isophorone	<0.19	F1	1.45	1.63	F1	mg/Kg	☼	112	35 - 110	
Benzo[a]pyrene	0.12		1.45	1.73		mg/Kg	☼	111	53 - 122	
Naphthalene	0.011	J F1	1.45	1.53		mg/Kg	☼	105	48 - 110	
Indeno[1,2,3-cd]pyrene	0.046		1.45	1.26		mg/Kg	☼	84	49 - 132	
Nitrobenzene	<0.037	F1	1.45	1.52		mg/Kg	☼	105	35 - 113	
Dibenz(a,h)anthracene	0.019	J	1.45	1.16		mg/Kg	☼	78	48 - 134	
Benzo[g,h,i]perylene	0.061		1.45	1.07		mg/Kg	☼	70	52 - 125	
N-Nitrosodi-n-propylamine	<0.074		1.45	1.57		mg/Kg	☼	108	24 - 123	
N-Nitrosodiphenylamine	<0.19	F1	1.45	1.78	F1	mg/Kg	☼	123	52 - 111	
Pentachlorophenol	<0.74	F1	2.90	0.633	J	mg/Kg	☼	22	10 - 124	
Phenanthrene	0.17		1.45	1.72		mg/Kg	☼	107	48 - 121	
Phenol	<0.19	F1	1.45	1.86	F1	mg/Kg	☼	128	41 - 110	
Pyrene	0.24	F1	1.45	2.60	E F1	mg/Kg	☼	163	46 - 114	
3 & 4 Methylphenol	<0.19		1.45	1.63		mg/Kg	☼	112	37 - 122	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	112	X	25 - 110
Nitrobenzene-d5	101		25 - 115
2-Fluorobiphenyl	92		25 - 119
2,4,6-Tribromophenol	95		35 - 137
Phenol-d5	112	X	31 - 110
Terphenyl-d14	180	X	36 - 134

Lab Sample ID: 500-107297-1 MSD

Matrix: Solid

Analysis Batch: 323052

Client Sample ID: 2746-02-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 322276

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,3-Dichlorobenzene	<0.19	F1	1.49	1.70	F1	mg/Kg	☼	114	44 - 110	11	30	
1,4-Dichlorobenzene	<0.19	F1	1.49	1.73	F1	mg/Kg	☼	116	45 - 110	10	30	
1,2-Dichlorobenzene	<0.19	F1	1.49	1.74	F1	mg/Kg	☼	117	48 - 110	10	30	
2,2'-oxybis[1-chloropropane]	<0.19		1.49	1.61		mg/Kg	☼	109	30 - 115	9	30	
1,2,4-Trichlorobenzene	<0.19	F1	1.49	1.73	F1	mg/Kg	☼	116	49 - 110	12	30	
2,4-Dimethylphenol	<0.37	F1	1.49	1.75	F1	mg/Kg	☼	118	49 - 110	11	30	
2-Chlorophenol	<0.19	F1	1.49	1.75	F1	mg/Kg	☼	118	47 - 114	10	30	
2,4-Dichlorophenol	<0.37	F1	1.49	1.84	F1	mg/Kg	☼	124	53 - 113	12	30	
2-Methylphenol	<0.19	F1	1.49	1.81	F1	mg/Kg	☼	122	44 - 110	3	30	
2,4,6-Trichlorophenol	<0.37		1.49	1.45		mg/Kg	☼	98	44 - 118	6	30	
2,4,5-Trichlorophenol	<0.37		1.49	1.44		mg/Kg	☼	97	41 - 120	8	30	
2-Methylnaphthalene	<0.037	F1	1.49	1.75	F1	mg/Kg	☼	118	48 - 110	8	30	
2-Nitroaniline	<0.19		1.49	1.64		mg/Kg	☼	111	42 - 122	8	30	
2-Chloronaphthalene	<0.19		1.49	1.51		mg/Kg	☼	102	52 - 114	9	30	
2,6-Dinitrotoluene	<0.19		1.49	1.43		mg/Kg	☼	96	54 - 117	8	30	
4-Chloro-3-methylphenol	<0.37	F1	1.49	1.85	F1	mg/Kg	☼	125	52 - 111	13	30	
2-Nitrophenol	<0.37		1.49	1.58		mg/Kg	☼	106	48 - 113	12	30	
4-Chloroaniline	<0.74		1.49	1.75		mg/Kg	☼	118	16 - 118	30	30	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107297-1 MSD

Matrix: Solid

Analysis Batch: 323052

Client Sample ID: 2746-02-B02 (0-7)

Prep Type: Total/NA

Prep Batch: 322276

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
3-Nitroaniline	<0.37		1.49	1.87		mg/Kg	☼	126	36 - 131	15	30
2,4-Dinitrophenol	<0.74	F1	2.97	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
2,4-Dinitrotoluene	<0.19		1.49	1.27		mg/Kg	☼	85	53 - 122	4	30
Acenaphthylene	<0.037		1.49	1.55		mg/Kg	☼	104	49 - 110	9	30
Acenaphthene	0.010	J	1.49	1.41		mg/Kg	☼	94	46 - 110	7	30
4-Nitrophenol	<0.74		2.97	2.82		mg/Kg	☼	95	10 - 157	5	30
4-Nitroaniline	<0.37		1.49	1.68		mg/Kg	☼	113	28 - 157	14	30
4-Bromophenyl phenyl ether	<0.19	F1	1.49	1.78	F1	mg/Kg	☼	120	55 - 113	5	30
Bis(2-chloroethoxy)methane	<0.19	F1	1.49	1.87	F1	mg/Kg	☼	126	42 - 110	10	30
Bis(2-chloroethyl)ether	<0.19	F1	1.49	1.92	F1	mg/Kg	☼	129	32 - 110	2	30
4-Chlorophenyl phenyl ether	<0.19		1.49	1.61		mg/Kg	☼	108	53 - 117	8	30
4,6-Dinitro-2-methylphenol	<0.74	F1	2.97	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
Anthracene	0.031	J	1.49	1.67		mg/Kg	☼	110	48 - 118	9	30
Dibenzofuran	<0.19		1.49	1.54		mg/Kg	☼	104	51 - 119	8	30
Carbazole	<0.19		1.49	2.07		mg/Kg	☼	139	26 - 188	6	30
Diethyl phthalate	<0.19		1.49	1.69		mg/Kg	☼	114	50 - 128	8	30
Dimethyl phthalate	<0.19		1.49	1.60		mg/Kg	☼	108	56 - 113	8	30
Di-n-butyl phthalate	<0.19		1.49	1.89		mg/Kg	☼	127	50 - 128	7	30
Butyl benzyl phthalate	<0.19	F1	1.49	2.90	E F1	mg/Kg	☼	195	49 - 121	8	30
Fluoranthene	0.25		1.49	1.73		mg/Kg	☼	100	48 - 128	9	30
Benzo[a]anthracene	0.12		1.49	1.73		mg/Kg	☼	108	49 - 121	9	30
Fluorene	0.011	J	1.49	1.54		mg/Kg	☼	103	47 - 121	9	30
Chrysene	0.16		1.49	1.86		mg/Kg	☼	114	45 - 118	10	30
Hexachlorobenzene	<0.074	F1	1.49	1.75	F1	mg/Kg	☼	118	54 - 114	6	30
3,3'-Dichlorobenzidine	<0.19		1.49	0.603		mg/Kg	☼	41	26 - 128	19	30
Hexachlorobutadiene	<0.19	F1	1.49	1.86	F1	mg/Kg	☼	125	47 - 114	11	30
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.49	2.92	E F1	mg/Kg	☼	196	47 - 133	9	30
Hexachlorocyclopentadiene	<0.74	F1	1.49	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
Di-n-octyl phthalate	<0.19		1.49	1.16		mg/Kg	☼	78	46 - 138	2	30
Hexachloroethane	<0.19		1.49	1.24		mg/Kg	☼	84	44 - 110	9	30
Benzo[b]fluoranthene	0.20	F1	1.49	2.32	F1	mg/Kg	☼	143	54 - 122	9	30
Benzo[k]fluoranthene	0.058	F1	1.49	2.12	F1	mg/Kg	☼	139	44 - 137	3	30
Isophorone	<0.19	F1	1.49	1.83	F1	mg/Kg	☼	123	35 - 110	12	30
Benzo[a]pyrene	0.12		1.49	1.91		mg/Kg	☼	120	53 - 122	10	30
Naphthalene	0.011	J F1	1.49	1.71	F1	mg/Kg	☼	114	48 - 110	11	30
Indeno[1,2,3-cd]pyrene	0.046		1.49	1.38		mg/Kg	☼	90	49 - 132	9	30
Nitrobenzene	<0.037	F1	1.49	1.71	F1	mg/Kg	☼	115	35 - 113	12	30
Dibenz(a,h)anthracene	0.019	J	1.49	1.27		mg/Kg	☼	84	48 - 134	9	30
Benzo[g,h,i]perylene	0.061		1.49	1.18		mg/Kg	☼	76	52 - 125	10	30
N-Nitrosodi-n-propylamine	<0.074		1.49	1.79		mg/Kg	☼	120	24 - 123	13	30
N-Nitrosodiphenylamine	<0.19	F1	1.49	1.87	F1	mg/Kg	☼	126	52 - 111	5	30
Pentachlorophenol	<0.74	F1	2.97	<0.75	F1	mg/Kg	☼	0	10 - 124	NC	30
Phenanthrene	0.17		1.49	1.89		mg/Kg	☼	115	48 - 121	9	30
Phenol	<0.19	F1	1.49	2.04	F1	mg/Kg	☼	137	41 - 110	9	30
Pyrene	0.24	F1	1.49	2.95	E F1	mg/Kg	☼	182	46 - 114	12	30
3 & 4 Methylphenol	<0.19		1.49	1.75		mg/Kg	☼	118	37 - 122	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107297-1 MSD
Matrix: Solid
Analysis Batch: 323052

Client Sample ID: 2746-02-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 322276

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	120	X	25 - 110
Nitrobenzene-d5	112		25 - 115
2-Fluorobiphenyl	98		25 - 119
2,4,6-Tribromophenol	101		35 - 137
Phenol-d5	120	X	31 - 110
Terphenyl-d14	196	X	36 - 134

Lab Sample ID: MB 500-322382/1-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322382

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/10/16 17:42	02/17/16 18:08	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322382/1-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/10/16 17:42	02/17/16 18:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	02/10/16 17:42	02/17/16 18:08	1
Nitrobenzene-d5	61		25 - 115	02/10/16 17:42	02/17/16 18:08	1
2-Fluorobiphenyl	66		25 - 119	02/10/16 17:42	02/17/16 18:08	1
2,4,6-Tribromophenol	55		35 - 137	02/10/16 17:42	02/17/16 18:08	1
Phenol-d5	68		31 - 110	02/10/16 17:42	02/17/16 18:08	1
Terphenyl-d14	83		36 - 134	02/10/16 17:42	02/17/16 18:08	1

Lab Sample ID: LCS 500-322382/2-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,3-Dichlorobenzene	1.33	0.816		mg/Kg		61	44 - 110
1,4-Dichlorobenzene	1.33	0.837		mg/Kg		63	45 - 110
1,2-Dichlorobenzene	1.33	0.851		mg/Kg		64	48 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.662		mg/Kg		50	30 - 115
1,2,4-Trichlorobenzene	1.33	0.891		mg/Kg		67	49 - 110
2,4-Dimethylphenol	1.33	0.854		mg/Kg		64	49 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322382/2-A

Matrix: Solid

Analysis Batch: 323158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	1.33	0.897		mg/Kg		67	47 - 114
2,4-Dichlorophenol	1.33	0.892		mg/Kg		67	53 - 113
2-Methylphenol	1.33	0.875		mg/Kg		66	44 - 110
2,4,6-Trichlorophenol	1.33	0.909		mg/Kg		68	44 - 118
2,4,5-Trichlorophenol	1.33	0.939		mg/Kg		70	41 - 120
2-Methylnaphthalene	1.33	0.851		mg/Kg		64	48 - 110
2-Nitroaniline	1.33	0.875		mg/Kg		66	42 - 122
2-Chloronaphthalene	1.33	0.903		mg/Kg		68	52 - 114
2,6-Dinitrotoluene	1.33	0.987		mg/Kg		74	54 - 117
4-Chloro-3-methylphenol	1.33	0.892		mg/Kg		67	52 - 111
2-Nitrophenol	1.33	1.02		mg/Kg		77	48 - 113
4-Chloroaniline	1.33	1.04		mg/Kg		78	16 - 118
3-Nitroaniline	1.33	0.902		mg/Kg		68	36 - 131
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		16	10 - 110
2,4-Dinitrotoluene	1.33	1.08		mg/Kg		81	53 - 122
Acenaphthylene	1.33	0.899		mg/Kg		67	49 - 110
Acenaphthene	1.33	0.816		mg/Kg		61	46 - 110
4-Nitrophenol	2.67	1.67		mg/Kg		63	10 - 157
4-Nitroaniline	1.33	1.12		mg/Kg		84	28 - 157
4-Bromophenyl phenyl ether	1.33	0.911		mg/Kg		68	55 - 113
Bis(2-chloroethoxy)methane	1.33	0.857		mg/Kg		64	42 - 110
Bis(2-chloroethyl)ether	1.33	0.849		mg/Kg		64	32 - 110
4-Chlorophenyl phenyl ether	1.33	0.943		mg/Kg		71	53 - 117
4,6-Dinitro-2-methylphenol	2.67	0.755		mg/Kg		28	10 - 110
Anthracene	1.33	0.865		mg/Kg		65	48 - 118
Dibenzofuran	1.33	0.900		mg/Kg		68	51 - 119
Carbazole	1.33	1.03		mg/Kg		77	26 - 188
Diethyl phthalate	1.33	0.940		mg/Kg		71	50 - 128
Dimethyl phthalate	1.33	0.923		mg/Kg		69	56 - 113
Di-n-butyl phthalate	1.33	0.913		mg/Kg		68	50 - 128
Butyl benzyl phthalate	1.33	0.948		mg/Kg		71	49 - 121
Fluoranthene	1.33	0.909		mg/Kg		68	48 - 128
Benzo[a]anthracene	1.33	0.872		mg/Kg		65	49 - 121
Fluorene	1.33	0.877		mg/Kg		66	47 - 121
Chrysene	1.33	0.883		mg/Kg		66	45 - 118
Hexachlorobenzene	1.33	0.947		mg/Kg		71	54 - 114
3,3'-Dichlorobenzidine	1.33	0.896		mg/Kg		67	26 - 128
Hexachlorobutadiene	1.33	0.925		mg/Kg		69	47 - 114
Bis(2-ethylhexyl) phthalate	1.33	0.945		mg/Kg		71	47 - 133
Hexachlorocyclopentadiene	1.33	0.475	J	mg/Kg		36	10 - 110
Di-n-octyl phthalate	1.33	0.870		mg/Kg		65	46 - 138
Hexachloroethane	1.33	0.860		mg/Kg		65	44 - 110
Benzo[b]fluoranthene	1.33	1.05		mg/Kg		79	54 - 122
Benzo[k]fluoranthene	1.33	1.11		mg/Kg		83	44 - 137
Isophorone	1.33	0.810		mg/Kg		61	35 - 110
Benzo[a]pyrene	1.33	0.947		mg/Kg		71	53 - 122
Naphthalene	1.33	0.841		mg/Kg		63	48 - 110
Indeno[1,2,3-cd]pyrene	1.33	0.675		mg/Kg		51	49 - 132

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322382/2-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	1.33	0.895		mg/Kg		67	35 - 113
Dibenz(a,h)anthracene	1.33	0.612	*	mg/Kg		46	48 - 134
Benzo[g,h,i]perylene	1.33	0.484	*	mg/Kg		36	52 - 125
N-Nitrosodi-n-propylamine	1.33	0.856		mg/Kg		64	24 - 123
N-Nitrosodiphenylamine	1.33	0.881		mg/Kg		66	52 - 111
Pentachlorophenol	2.67	0.920		mg/Kg		34	10 - 124
Phenanthrene	1.33	0.853		mg/Kg		64	48 - 121
Phenol	1.33	0.867		mg/Kg		65	41 - 110
Pyrene	1.33	0.935		mg/Kg		70	46 - 114
3 & 4 Methylphenol	1.33	0.888		mg/Kg		67	37 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	47		25 - 110
Nitrobenzene-d5	48		25 - 115
2-Fluorobiphenyl	47		25 - 119
2,4,6-Tribromophenol	57		35 - 137
Phenol-d5	46		31 - 110
Terphenyl-d14	59		36 - 134

Lab Sample ID: MB 500-323276/1-A
Matrix: Solid
Analysis Batch: 323328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/17/16 17:08	02/18/16 11:35	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-323276/1-A
Matrix: Solid
Analysis Batch: 323328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323276

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Phenol	<0.17		0.17	0.074	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/17/16 17:08	02/18/16 11:35	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/17/16 17:08	02/18/16 11:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	74		25 - 110	02/17/16 17:08	02/18/16 11:35	1
Nitrobenzene-d5	68		25 - 115	02/17/16 17:08	02/18/16 11:35	1
2-Fluorobiphenyl	71		25 - 119	02/17/16 17:08	02/18/16 11:35	1
2,4,6-Tribromophenol	48		35 - 137	02/17/16 17:08	02/18/16 11:35	1
Phenol-d5	74		31 - 110	02/17/16 17:08	02/18/16 11:35	1
Terphenyl-d14	91		36 - 134	02/17/16 17:08	02/18/16 11:35	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Lab Sample ID: LCS 500-323276/2-A

Matrix: Solid

Analysis Batch: 323328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 323276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	1.33	0.996		mg/Kg		75	44 - 110
1,4-Dichlorobenzene	1.33	1.00		mg/Kg		75	45 - 110
1,2-Dichlorobenzene	1.33	1.03		mg/Kg		77	48 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.820		mg/Kg		62	30 - 115
1,2,4-Trichlorobenzene	1.33	1.14		mg/Kg		85	49 - 110
2,4-Dimethylphenol	1.33	1.02		mg/Kg		77	49 - 110
2-Chlorophenol	1.33	1.06		mg/Kg		79	47 - 114
2,4-Dichlorophenol	1.33	1.13		mg/Kg		85	53 - 113
2-Methylphenol	1.33	1.00		mg/Kg		75	44 - 110
2,4,6-Trichlorophenol	1.33	0.948		mg/Kg		71	44 - 118
2,4,5-Trichlorophenol	1.33	0.970		mg/Kg		73	41 - 120
2-Methylnaphthalene	1.33	1.04		mg/Kg		78	48 - 110
2-Nitroaniline	1.33	1.03		mg/Kg		77	42 - 122
2-Chloronaphthalene	1.33	0.990		mg/Kg		74	52 - 114
2,6-Dinitrotoluene	1.33	1.11		mg/Kg		83	54 - 117
4-Chloro-3-methylphenol	1.33	1.15		mg/Kg		86	52 - 111
2-Nitrophenol	1.33	1.16		mg/Kg		87	48 - 113
4-Chloroaniline	1.33	1.32		mg/Kg		99	16 - 118
3-Nitroaniline	1.33	1.06		mg/Kg		80	36 - 131
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		10	10 - 110
2,4-Dinitrotoluene	1.33	1.13		mg/Kg		85	53 - 122
Acenaphthylene	1.33	1.01		mg/Kg		76	49 - 110
Acenaphthene	1.33	0.908		mg/Kg		68	46 - 110
4-Nitrophenol	2.67	1.84		mg/Kg		69	10 - 157
4-Nitroaniline	1.33	1.39		mg/Kg		104	28 - 157
4-Bromophenyl phenyl ether	1.33	1.25		mg/Kg		94	55 - 113
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	42 - 110
Bis(2-chloroethyl)ether	1.33	0.995		mg/Kg		75	32 - 110
4-Chlorophenyl phenyl ether	1.33	1.07		mg/Kg		80	53 - 117
4,6-Dinitro-2-methylphenol	2.67	0.800		mg/Kg		30	10 - 110
Anthracene	1.33	1.16		mg/Kg		87	48 - 118
Dibenzofuran	1.33	1.02		mg/Kg		77	51 - 119
Carbazole	1.33	1.30		mg/Kg		97	26 - 188
Diethyl phthalate	1.33	1.07		mg/Kg		80	50 - 128
Dimethyl phthalate	1.33	1.08		mg/Kg		81	56 - 113
Di-n-butyl phthalate	1.33	1.24		mg/Kg		93	50 - 128
Butyl benzyl phthalate	1.33	1.18		mg/Kg		88	49 - 121
Fluoranthene	1.33	1.27		mg/Kg		95	48 - 128
Benzo[a]anthracene	1.33	1.13		mg/Kg		85	49 - 121
Fluorene	1.33	1.02		mg/Kg		76	47 - 121
Chrysene	1.33	1.19		mg/Kg		89	45 - 118
Hexachlorobenzene	1.33	1.22		mg/Kg		92	54 - 114
3,3'-Dichlorobenzidine	1.33	1.01		mg/Kg		76	26 - 128
Hexachlorobutadiene	1.33	1.17		mg/Kg		88	47 - 114
Bis(2-ethylhexyl) phthalate	1.33	1.17		mg/Kg		88	47 - 133
Hexachlorocyclopentadiene	1.33	0.296	J	mg/Kg		22	10 - 110
Di-n-octyl phthalate	1.33	1.28		mg/Kg		96	46 - 138
Hexachloroethane	1.33	1.02		mg/Kg		77	44 - 110
Benzo[b]fluoranthene	1.33	1.25		mg/Kg		94	54 - 122
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	44 - 137

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323276/2-A
Matrix: Solid
Analysis Batch: 323328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isophorone	1.33	1.12		mg/Kg		84	35 - 110
Benzo[a]pyrene	1.33	1.26		mg/Kg		95	53 - 122
Naphthalene	1.33	1.07		mg/Kg		81	48 - 110
Indeno[1,2,3-cd]pyrene	1.33	1.35		mg/Kg		101	49 - 132
Nitrobenzene	1.33	1.06		mg/Kg		80	35 - 113
Dibenz(a,h)anthracene	1.33	1.30		mg/Kg		98	48 - 134
Benzo[g,h,i]perylene	1.33	1.26		mg/Kg		94	52 - 125
N-Nitrosodi-n-propylamine	1.33	1.00		mg/Kg		75	24 - 123
N-Nitrosodiphenylamine	1.33	1.21		mg/Kg		91	52 - 111
Pentachlorophenol	2.67	1.42		mg/Kg		53	10 - 124
Phenanthrene	1.33	1.15		mg/Kg		86	48 - 121
Phenol	1.33	0.979		mg/Kg		73	41 - 110
Pyrene	1.33	1.14		mg/Kg		86	46 - 114
3 & 4 Methylphenol	1.33	0.945		mg/Kg		71	37 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	82		25 - 110
Nitrobenzene-d5	80		25 - 115
2-Fluorobiphenyl	80		25 - 119
2,4,6-Tribromophenol	81		35 - 137
Phenol-d5	83		31 - 110
Terphenyl-d14	95		36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-322514/2-A
Matrix: Solid
Analysis Batch: 322811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.500	0.523		mg/L		105	80 - 120
Beryllium	0.0500	0.0520		mg/L		104	80 - 120
Boron	1.00	0.994		mg/L		99	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.520		mg/L		104	80 - 120
Iron	1.00	1.10		mg/L		110	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.532		mg/L		106	80 - 120
Nickel	0.500	0.516		mg/L		103	80 - 120
Selenium	0.100	0.0943		mg/L		94	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120
Zinc	0.500	0.513		mg/L		103	80 - 120

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322516/2-A
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.	
Barium	0.500	0.513		mg/L		103	80 - 120		
Beryllium	0.0500	0.0506		mg/L		101	80 - 120		
Boron	1.00	0.962		mg/L		96	80 - 120		
Cadmium	0.0500	0.0495		mg/L		99	80 - 120		
Chromium	0.200	0.203		mg/L		102	80 - 120		
Cobalt	0.500	0.507		mg/L		101	80 - 120		
Iron	1.00	1.08		mg/L		108	80 - 120		
Lead	0.100	0.101		mg/L		101	80 - 120		
Manganese	0.500	0.520		mg/L		104	80 - 120		
Nickel	0.500	0.504		mg/L		101	80 - 120		
Selenium	0.100	0.0941		mg/L		94	80 - 120		
Silver	0.0500	0.0501		mg/L		100	80 - 120		
Zinc	0.500	0.502		mg/L		100	80 - 120		

Lab Sample ID: LCS 500-322522/2-A
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.	
Cadmium	0.0500	0.0519		mg/L		104	80 - 120		
Lead	0.100	0.106		mg/L		106	80 - 120		
Manganese	0.500	0.533		mg/L		107	80 - 120		

Lab Sample ID: LCS 500-322525/2-A
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.	
Manganese	0.500	0.529		mg/L		106	80 - 120		

Lab Sample ID: MB 500-322527/1-A
Matrix: Solid
Analysis Batch: 322708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322527

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Barium	<1.0		1.0	0.18	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Boron	<5.0		5.0	0.70	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Calcium	11.4	J	20	6.4	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Chromium	1.00		1.0	0.17	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Copper	<1.0		1.0	0.22	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Iron	12.6	J	20	7.7	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Lead	<0.50		0.50	0.25	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Magnesium	<10		10	4.1	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/11/16 15:41	02/12/16 16:18	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-322527/1-A
Matrix: Solid
Analysis Batch: 322708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<1.0		1.0	0.27	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Potassium	<50		50	8.2	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Silver	<0.50		0.50	0.12	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Sodium	<100		100	13	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/11/16 15:41	02/12/16 16:18	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/11/16 15:41	02/12/16 16:18	1

Lab Sample ID: LCS 500-322527/2-A
Matrix: Solid
Analysis Batch: 322708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	10.0	9.42		mg/Kg		94	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.78		mg/Kg		96	80 - 120
Boron	100	84.5		mg/Kg		84	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Calcium	1000	945		mg/Kg		94	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	47.5		mg/Kg		95	80 - 120
Copper	25.0	22.7		mg/Kg		91	80 - 120
Iron	100	111		mg/Kg		111	80 - 120
Lead	10.0	9.10		mg/Kg		91	80 - 120
Magnesium	1000	935		mg/Kg		94	80 - 120
Manganese	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	47.2		mg/Kg		94	80 - 120
Potassium	1000	959		mg/Kg		96	80 - 120
Selenium	10.0	8.39		mg/Kg		84	80 - 120
Silver	5.00	4.35		mg/Kg		87	80 - 120
Sodium	1000	963		mg/Kg		96	80 - 120
Thallium	10.0	8.92		mg/Kg		89	80 - 120
Vanadium	50.0	45.7		mg/Kg		91	80 - 120
Zinc	50.0	46.4		mg/Kg		93	80 - 120

Lab Sample ID: 500-107297-23 MS
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.2	F1	29.6	6.13	F1	mg/Kg	☼	21	75 - 125
Arsenic	6.6	F1	5.93	12.6		mg/Kg	☼	102	75 - 125
Barium	53		119	162		mg/Kg	☼	92	75 - 125
Beryllium	0.71		2.96	3.25		mg/Kg	☼	85	75 - 125
Boron	13		59.3	63.1		mg/Kg	☼	85	75 - 125
Cadmium	0.13		2.96	2.63		mg/Kg	☼	84	75 - 125
Chromium	19	B	11.9	30.1		mg/Kg	☼	92	75 - 125

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107297-23 MS
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527
%Rec.

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Added	Result				
Cobalt	11		29.6	40.0		mg/Kg	☼	96	75 - 125
Copper	29	F1	14.8	39.1	F1	mg/Kg	☼	71	75 - 125
Iron	18000	B	59.3	19400	4	mg/Kg	☼	2792	75 - 125
Lead	57	F2	5.93	43.5	4	mg/Kg	☼	-236	75 - 125
Magnesium	21000		593	21600	4	mg/Kg	☼	113	75 - 125
Manganese	270		29.6	286	4	mg/Kg	☼	41	75 - 125
Nickel	30		29.6	58.8		mg/Kg	☼	97	75 - 125
Potassium	2800		593	4570	4	mg/Kg	☼	302	75 - 125
Selenium	<0.59		5.93	4.94		mg/Kg	☼	83	75 - 125
Silver	<0.30		2.96	2.35		mg/Kg	☼	79	75 - 125
Sodium	300		593	845		mg/Kg	☼	92	75 - 125
Thallium	<0.59		5.93	5.37		mg/Kg	☼	91	75 - 125
Vanadium	23		29.6	50.0		mg/Kg	☼	92	75 - 125
Zinc	67	F1 F2	29.6	94.0		mg/Kg	☼	90	75 - 125

Lab Sample ID: 500-107297-23 MS
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527
%Rec.

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Added	Result				
Calcium	49000	B	593	53100	4	mg/Kg	☼	688	75 - 125

Lab Sample ID: 500-107297-23 MSD
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527
%Rec.

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result						
Antimony	<1.2	F1	29.1	5.91	F1	mg/Kg	☼	20	75 - 125	4	20
Arsenic	6.6	F1	5.82	15.0	F1	mg/Kg	☼	145	75 - 125	17	20
Barium	53		116	153		mg/Kg	☼	86	75 - 125	6	20
Beryllium	0.71		2.91	3.17		mg/Kg	☼	84	75 - 125	2	20
Boron	13		58.2	57.7		mg/Kg	☼	77	75 - 125	9	20
Cadmium	0.13		2.91	2.61		mg/Kg	☼	86	75 - 125	1	20
Chromium	19	B	11.6	29.6		mg/Kg	☼	89	75 - 125	2	20
Cobalt	11		29.1	38.7		mg/Kg	☼	93	75 - 125	3	20
Copper	29	F1	14.5	47.8	F1	mg/Kg	☼	132	75 - 125	20	20
Iron	18000	B	58.2	20400	4	mg/Kg	☼	4614	75 - 125	5	20
Lead	57	F2	5.82	93.1	4 F2	mg/Kg	☼	612	75 - 125	73	20
Magnesium	21000		582	18400	4	mg/Kg	☼	-433	75 - 125	16	20
Manganese	270		29.1	284	4	mg/Kg	☼	33	75 - 125	1	20
Nickel	30		29.1	59.5		mg/Kg	☼	101	75 - 125	1	20
Potassium	2800		582	3980	4	mg/Kg	☼	205	75 - 125	14	20
Selenium	<0.59		5.82	4.87		mg/Kg	☼	84	75 - 125	1	20
Silver	<0.30		2.91	2.34		mg/Kg	☼	80	75 - 125	1	20
Sodium	300		582	809		mg/Kg	☼	87	75 - 125	4	20
Thallium	<0.59		5.82	5.27		mg/Kg	☼	91	75 - 125	2	20
Vanadium	23		29.1	52.9		mg/Kg	☼	104	75 - 125	6	20
Zinc	67	F1 F2	29.1	336	F1 F2	mg/Kg	☼	923	75 - 125	112	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107297-23 MSD
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Calcium	49000	B	582	41000	4 F2	mg/Kg	☼	-1378	75 - 125	26	20

Lab Sample ID: 500-107297-23 DU
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<1.2	F1	<1.2		mg/Kg	☼	NC	20
Arsenic	6.6	F1	5.50		mg/Kg	☼	18	20
Barium	53		48.3		mg/Kg	☼	10	20
Beryllium	0.71		0.671		mg/Kg	☼	6	20
Boron	13		13.6		mg/Kg	☼	4	20
Cadmium	0.13		0.0960	J F5	mg/Kg	☼	29	20
Chromium	19	B	17.9		mg/Kg	☼	7	20
Cobalt	11		9.05	F3	mg/Kg	☼	24	20
Copper	29	F1	20.5	F3	mg/Kg	☼	33	20
Iron	18000	B	16000		mg/Kg	☼	10	20
Lead	57	F2	33.5	F3	mg/Kg	☼	53	20
Magnesium	21000		19800		mg/Kg	☼	6	20
Manganese	270		251		mg/Kg	☼	9	20
Nickel	30		29.9		mg/Kg	☼	0.3	20
Potassium	2800		2840		mg/Kg	☼	2	20
Selenium	<0.59		<0.58		mg/Kg	☼	NC	20
Silver	<0.30		<0.29		mg/Kg	☼	NC	20
Sodium	300		291		mg/Kg	☼	3	20
Thallium	<0.59		<0.58		mg/Kg	☼	NC	20
Vanadium	23		20.5		mg/Kg	☼	10	20
Zinc	67	F1 F2	66.5		mg/Kg	☼	1	20

Lab Sample ID: 500-107297-23 DU
Matrix: Solid
Analysis Batch: 322809

Client Sample ID: 2746-01-B37 (0-8)
Prep Type: Total/NA
Prep Batch: 322527

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	49000	B	57000		mg/Kg	☼	15	20

Lab Sample ID: LB 500-322351/1-B
Matrix: Solid
Analysis Batch: 322811

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322514

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:16	02/13/16 12:27	1
Boron	<0.50		0.50	0.050	mg/L		02/11/16 15:16	02/13/16 12:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:16	02/13/16 12:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:27	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:16	02/13/16 12:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:16	02/13/16 12:27	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322351/1-B
Matrix: Solid
Analysis Batch: 322811

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322514

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Manganese	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:16	02/13/16 12:27	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:16	02/13/16 12:27	1
Zinc	0.287	J	0.50	0.020	mg/L		02/11/16 15:16	02/13/16 12:27	1

Lab Sample ID: 500-107297-4 MS
Matrix: Solid
Analysis Batch: 322811

Client Sample ID: 2746-01-B58 (0-8)
Prep Type: TCLP
Prep Batch: 322514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Barium	0.66		0.500	1.17		mg/L		101	50 - 150
Beryllium	<0.0040		0.0500	0.0532		mg/L		106	50 - 150
Boron	0.084	J	1.00	1.40		mg/L		132	50 - 150
Cadmium	<0.0050		0.0500	0.0528		mg/L		106	50 - 150
Chromium	<0.025		0.200	0.204		mg/L		102	50 - 150
Cobalt	0.034		0.500	0.538		mg/L		101	50 - 150
Iron	0.66	F1	1.00	1.15	F1	mg/L		49	50 - 150
Lead	0.010		0.100	0.112		mg/L		102	50 - 150
Manganese	13		0.500	13.9	4	mg/L		102	50 - 150
Nickel	0.039		0.500	0.539		mg/L		100	50 - 150
Selenium	<0.050		0.100	0.109		mg/L		109	50 - 150
Silver	<0.025		0.0500	0.0553		mg/L		111	50 - 150
Zinc	0.038	J B	0.500	0.594		mg/L		111	50 - 150

Lab Sample ID: 500-107297-4 DU
Matrix: Solid
Analysis Batch: 322811

Client Sample ID: 2746-01-B58 (0-8)
Prep Type: TCLP
Prep Batch: 322514

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	
			Result	Qualifier			RPD	Limit
Barium	0.66		0.674		mg/L		2	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.084	J	0.0854	J	mg/L		2	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.034		0.0337		mg/L		0.1	20
Iron	0.66	F1	0.674		mg/L		2	20
Lead	0.010		0.0106		mg/L		4	20
Manganese	13		13.6		mg/L		1	20
Nickel	0.039		0.0385		mg/L		0.5	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.038	J B	0.0384	J	mg/L		0.3	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322353/1-B
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322516

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 01:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 01:49	1
Boron	0.0549	J	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 01:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 01:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 01:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 01:49	1
Manganese	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 01:49	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Zinc	0.319	J	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 01:49	1

Lab Sample ID: LB 500-322356/1-B
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322522

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:25	02/13/16 00:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:25	02/13/16 00:53	1
Manganese	<0.025		0.025	0.010	mg/L		02/11/16 15:25	02/13/16 00:53	1

Lab Sample ID: 500-107297-1 MS
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: 2746-02-B02 (0-7)
Prep Type: SPLP East
Prep Batch: 322522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.34		0.500	1.01		mg/L		135	50 - 150

Lab Sample ID: 500-107297-1 DU
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: 2746-02-B02 (0-7)
Prep Type: SPLP East
Prep Batch: 322522

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	0.34		0.346		mg/L		3	20

Lab Sample ID: LB 500-322357/1-B
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322525

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 04:17	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-322514/2-A
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.462		mg/L		92	80 - 120
Thallium	0.100	0.0975		mg/L		97	80 - 120

Lab Sample ID: LCS 500-322516/2-A
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.433		mg/L		87	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: MB 500-322174/1-A
Matrix: Water
Analysis Batch: 322298

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025	0.00084	mg/L		02/09/16 08:37	02/09/16 18:46	1
Beryllium	<0.0010		0.0010	0.00024	mg/L		02/09/16 08:37	02/09/16 18:46	1
Boron	<0.050		0.050	0.025	mg/L		02/09/16 08:37	02/09/16 18:46	1
Cadmium	<0.00050		0.00050	0.00019	mg/L		02/09/16 08:37	02/09/16 18:46	1
Chromium	<0.0050		0.0050	0.00061	mg/L		02/09/16 08:37	02/09/16 18:46	1
Cobalt	<0.0010		0.0010	0.00019	mg/L		02/09/16 08:37	02/09/16 18:46	1
Copper	<0.0020		0.0020	0.00096	mg/L		02/09/16 08:37	02/09/16 18:46	1
Iron	<0.10		0.10	0.026	mg/L		02/09/16 08:37	02/09/16 18:46	1
Lead	<0.00050		0.00050	0.00014	mg/L		02/09/16 08:37	02/09/16 18:46	1
Magnesium	<0.20		0.20	0.083	mg/L		02/09/16 08:37	02/09/16 18:46	1
Manganese	<0.0025		0.0025	0.00099	mg/L		02/09/16 08:37	02/09/16 18:46	1
Nickel	<0.0020		0.0020	0.00053	mg/L		02/09/16 08:37	02/09/16 18:46	1
Silver	<0.00050		0.00050	0.000080	mg/L		02/09/16 08:37	02/09/16 18:46	1
Thallium	0.000672	J	0.0020	0.00059	mg/L		02/09/16 08:37	02/09/16 18:46	1
Vanadium	<0.0050		0.0050	0.0022	mg/L		02/09/16 08:37	02/09/16 18:46	1
Zinc	<0.020		0.020	0.0046	mg/L		02/09/16 08:37	02/09/16 18:46	1

Lab Sample ID: MB 500-322174/1-A
Matrix: Water
Analysis Batch: 322858

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010	^	0.0010	0.00044	mg/L		02/09/16 08:37	02/12/16 19:54	1
Calcium	<0.20	^	0.20	0.11	mg/L		02/09/16 08:37	02/12/16 19:54	1
Potassium	<0.50	^	0.50	0.19	mg/L		02/09/16 08:37	02/12/16 19:54	1
Selenium	<0.0025	^	0.0025	0.00083	mg/L		02/09/16 08:37	02/12/16 19:54	1
Sodium	<0.20	^	0.20	0.088	mg/L		02/09/16 08:37	02/12/16 19:54	1

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-322174/2-A
Matrix: Water
Analysis Batch: 322298

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.489		mg/L		98	80 - 120
Beryllium	0.0500	0.0492		mg/L		98	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120
Copper	0.250	0.252		mg/L		101	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Lead	0.100	0.0981		mg/L		98	80 - 120
Magnesium	10.0	10.0		mg/L		100	80 - 120
Manganese	0.500	0.510		mg/L		102	80 - 120
Nickel	0.500	0.520		mg/L		104	80 - 120
Silver	0.0500	0.0480		mg/L		96	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120
Vanadium	0.500	0.518		mg/L		104	80 - 120
Zinc	0.500	0.515		mg/L		103	80 - 120

Lab Sample ID: LCS 500-322174/2-A
Matrix: Water
Analysis Batch: 322858

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.104	^	mg/L		104	80 - 120
Calcium	10.0	11.2	^	mg/L		112	80 - 120
Potassium	10.0	10.4	^	mg/L		104	80 - 120
Selenium	0.100	0.103	^	mg/L		103	80 - 120
Sodium	10.0	10.4	^	mg/L		104	80 - 120

Lab Sample ID: 500-107297-21 MS
Matrix: Water
Analysis Batch: 322298

Client Sample ID: 2746-01-G03
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.067		0.500	0.554		mg/L		97	75 - 125
Beryllium	<0.0010		0.0500	0.0485		mg/L		97	75 - 125
Boron	0.17		1.00	1.12		mg/L		95	75 - 125
Cadmium	0.00038	J	0.0500	0.0442		mg/L		88	75 - 125
Chromium	0.0082		0.200	0.185		mg/L		88	75 - 125
Cobalt	0.040		0.500	0.491		mg/L		90	75 - 125
Copper	0.022		0.250	0.238		mg/L		86	75 - 125
Iron	18		1.00	17.6	4	mg/L		-55	75 - 125
Lead	0.0067		0.100	0.107		mg/L		100	75 - 125
Magnesium	190		10.0	180	4	mg/L		-86	75 - 125
Manganese	1.7	F1	0.500	2.00	F1	mg/L		65	75 - 125
Nickel	0.047		0.500	0.476		mg/L		86	75 - 125
Silver	<0.00050		0.0500	0.0479		mg/L		96	75 - 125
Thallium	0.00062	J B	0.100	0.105		mg/L		105	75 - 125
Vanadium	0.0071		0.500	0.481		mg/L		95	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107297-21 MS
Matrix: Water
Analysis Batch: 322298

Client Sample ID: 2746-01-G03
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Zinc	0.088		0.500	0.520		mg/L		86	75 - 125

Lab Sample ID: 500-107297-21 MS
Matrix: Water
Analysis Batch: 322858

Client Sample ID: 2746-01-G03
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0073	F1	0.100	0.142	F1	mg/L		134	75 - 125
Potassium	5.2		10.0	17.4		mg/L		122	75 - 125
Selenium	0.0014	J F1	0.100	0.134	F1	mg/L		132	75 - 125

Lab Sample ID: 500-107297-21 MS
Matrix: Water
Analysis Batch: 322858

Client Sample ID: 2746-01-G03
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	460		10.0	445	4	mg/L		-194	75 - 125
Sodium	900	^	10.0	843	4 ^	mg/L		-532	75 - 125

Lab Sample ID: 500-107297-21 MSD
Matrix: Water
Analysis Batch: 322298

Client Sample ID: 2746-01-G03
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Barium	0.067		0.500	0.554		mg/L		97	75 - 125	0	20
Beryllium	<0.0010		0.0500	0.0484		mg/L		97	75 - 125	0	20
Boron	0.17		1.00	1.12		mg/L		95	75 - 125	0	20
Cadmium	0.00038	J	0.0500	0.0437		mg/L		87	75 - 125	1	20
Chromium	0.0082		0.200	0.183		mg/L		88	75 - 125	1	20
Cobalt	0.040		0.500	0.487		mg/L		89	75 - 125	1	20
Copper	0.022		0.250	0.237		mg/L		86	75 - 125	1	20
Iron	18		1.00	17.5	4	mg/L		-64	75 - 125	1	20
Lead	0.0067		0.100	0.107		mg/L		100	75 - 125	1	20
Magnesium	190		10.0	179	4	mg/L		-97	75 - 125	1	20
Manganese	1.7	F1	0.500	1.98	F1	mg/L		61	75 - 125	1	20
Nickel	0.047		0.500	0.476		mg/L		86	75 - 125	0	20
Silver	<0.00050		0.0500	0.0472		mg/L		94	75 - 125	1	20
Thallium	0.00062	J B	0.100	0.104		mg/L		103	75 - 125	1	20
Vanadium	0.0071		0.500	0.476		mg/L		94	75 - 125	1	20
Zinc	0.088		0.500	0.519		mg/L		86	75 - 125	0	20

Lab Sample ID: 500-107297-21 MSD
Matrix: Water
Analysis Batch: 322858

Client Sample ID: 2746-01-G03
Prep Type: Total Recoverable
Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0073	F1	0.100	0.120		mg/L		112	75 - 125	17	20
Potassium	5.2		10.0	14.9		mg/L		98	75 - 125	15	20
Selenium	0.0014	J F1	0.100	0.114		mg/L		113	75 - 125	16	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107297-21 MSD

Matrix: Water

Analysis Batch: 322858

Client Sample ID: 2746-01-G03

Prep Type: Total Recoverable

Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Calcium	460		10.0	436	4	mg/L		-290	75 - 125	2	20
Sodium	900	^	10.0	827	4 ^	mg/L		-691	75 - 125	2	20

Lab Sample ID: 500-107297-21 DU

Matrix: Water

Analysis Batch: 322298

Client Sample ID: 2746-01-G03

Prep Type: Total Recoverable

Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.067		0.0665		mg/L		0.5	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.17		0.165		mg/L		1	20
Cadmium	0.00038	J	0.000294	J F5	mg/L		27	20
Chromium	0.0082		0.00775		mg/L		6	20
Cobalt	0.040		0.0389		mg/L		3	20
Copper	0.022		0.0135	F3	mg/L		48	20
Iron	18		17.5		mg/L		4	20
Lead	0.0067		0.00627		mg/L		7	20
Magnesium	190		181		mg/L		4	20
Manganese	1.7	F1	1.66		mg/L		1	20
Nickel	0.047		0.0458		mg/L		1	20
Silver	<0.00050		<0.00050		mg/L		NC	20
Thallium	0.00062	J B	<0.0020		mg/L		NC	20
Vanadium	0.0071		0.00666		mg/L		6	20
Zinc	0.088		0.0824		mg/L		6	20

Lab Sample ID: 500-107297-21 DU

Matrix: Water

Analysis Batch: 322858

Client Sample ID: 2746-01-G03

Prep Type: Total Recoverable

Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Arsenic	0.0073	F1	0.00696		mg/L		5	20
Potassium	5.2		5.04		mg/L		2	20
Selenium	0.0014	J F1	0.00118	J	mg/L		16	20

Lab Sample ID: 500-107297-21 DU

Matrix: Water

Analysis Batch: 322858

Client Sample ID: 2746-01-G03

Prep Type: Total Recoverable

Prep Batch: 322174

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Calcium	460		452		mg/L		3	20
Sodium	900	^	871		mg/L		3	20

Lab Sample ID: LB 500-322351/1-B

Matrix: Solid

Analysis Batch: 322857

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 322514

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:16	02/12/16 12:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:16	02/12/16 12:39	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Lab Sample ID: 500-107297-4 MS
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: 2746-01-B58 (0-8)
Prep Type: TCLP
Prep Batch: 322514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.445		mg/L		89	50 - 150
Thallium	<0.0020		0.100	0.104		mg/L		104	50 - 150

Lab Sample ID: 500-107297-4 DU
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: 2746-01-B58 (0-8)
Prep Type: TCLP
Prep Batch: 322514

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: LB 500-322353/1-B
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322516

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 16:33	1

Method: 7470A - Mercury

Lab Sample ID: MB 500-322243/12-A
Matrix: Water
Analysis Batch: 322627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00011	mg/L		02/09/16 15:45	02/11/16 17:33	1

Lab Sample ID: LCS 500-322243/13-A
Matrix: Water
Analysis Batch: 322627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00228		mg/L		114	80 - 120

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-322553/12-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 12:47	1

Lab Sample ID: LCS 500-322553/13-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: MB 500-322554/12-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:41	1

Lab Sample ID: LCS 500-322554/13-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: LB 500-322351/1-C
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322553

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 12:51	1

Lab Sample ID: 500-107297-2 MS
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-02-B02 (7-13)
Prep Type: TCLP
Prep Batch: 322553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	50 - 150

Lab Sample ID: 500-107297-2 DU
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-02-B02 (7-13)
Prep Type: TCLP
Prep Batch: 322553

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: LB 500-322353/1-C
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322554

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:45	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-322476/12-A
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/11/16 15:15	02/12/16 14:05	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-322476/13-A
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.174		mg/Kg		104	80 - 120

Lab Sample ID: 500-107297-1 MS
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: 2746-02-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 322476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.029		0.0945	0.127		mg/Kg	☼	103	75 - 125

Lab Sample ID: 500-107297-1 MSD
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: 2746-02-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 322476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.029		0.0896	0.113		mg/Kg	☼	93	75 - 125	11	20

Lab Sample ID: 500-107297-1 DU
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: 2746-02-B02 (0-7)
Prep Type: Total/NA
Prep Batch: 322476

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.029		0.0426	F5	mg/Kg	☼	37	20

Lab Sample ID: MB 500-322484/12-A
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/11/16 15:15	02/14/16 15:59	1

Lab Sample ID: LCS 500-322484/13-A
Matrix: Solid
Analysis Batch: 322773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.183		mg/Kg		109	80 - 120

Method: 9045D - pH

Lab Sample ID: 500-107297-11 DU
Matrix: Solid
Analysis Batch: 322568

Client Sample ID: 2746-01-B60 (7-14)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	7.96		7.920		SU		0.5	

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (0-7)

Date Collected: 02/05/16 08:30

Date Received: 02/05/16 16:55

Lab Sample ID: 500-107297-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 01:07	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 12:40	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:08	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 12:52	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 20:42		
					(End)	02/11/16 20:49		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-02-B02 (0-7)

Date Collected: 02/05/16 08:30

Date Received: 02/05/16 16:55

Lab Sample ID: 500-107297-1

Matrix: Solid

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 00:19	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 19:18	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:09	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 17:52	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/12/16 14:09	MJD	TAL CHI

Client Sample ID: 2746-02-B02 (7-13)

Date Collected: 02/05/16 08:35

Date Received: 02/05/16 16:55

Lab Sample ID: 500-107297-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 01:34	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 12:47	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Date Collected: 02/05/16 08:35

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:13	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 12:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 20:49 (End) 02/11/16 20:56	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-02-B02 (7-13)

Lab Sample ID: 500-107297-2

Date Collected: 02/05/16 08:35

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 00:45	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 19:47	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322708	02/12/16 16:51	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:13	MJD	TAL CHI

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 01:40	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 12:54	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:17	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:00	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 20:56 (End) 02/11/16 21:03	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-02-B02 (13-19)

Lab Sample ID: 500-107297-3

Date Collected: 02/05/16 08:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 01:10	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 20:16	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:15	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 17:56	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:15	MJD	TAL CHI

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Date Collected: 02/05/16 09:20

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 01:47	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 13:01	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:21	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 21:03 (End) 02/11/16 21:10	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (0-8)

Lab Sample ID: 500-107297-4

Date Collected: 02/05/16 09:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 01:36	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 20:45	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:20	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:01	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:17	MJD	TAL CHI

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 01:54	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 13:28	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:37	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 21:10		
					(End)	02/11/16 21:17		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 02:01	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 21:14	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:25	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B58 (8-16)

Lab Sample ID: 500-107297-5

Date Collected: 02/05/16 09:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:05	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:19	MJD	TAL CHI

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:17	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 13:50	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:49	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:09	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 21:17		
					(End)	02/11/16 21:24		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B59 (0-7)

Lab Sample ID: 500-107297-6

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 02:26	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 16:53	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:30	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:21	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:24	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:08	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:53	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:11	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 21:24		
					(End)	02/11/16 21:31		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B59 (0-7)D

Lab Sample ID: 500-107297-7

Date Collected: 02/05/16 09:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 02:52	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 17:22	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:34	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:21	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:23	MJD	TAL CHI

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:30	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:15	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 13:58	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 21:31 (End) 02/11/16 21:38	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B59 (7-14)

Lab Sample ID: 500-107297-8

Date Collected: 02/05/16 10:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 03:18	EMA	TAL CHI
Total/NA	Prep	3541			323276	02/17/16 17:08	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323328	02/18/16 14:34	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:39	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:25	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:25	MJD	TAL CHI

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:37	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:22	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:02	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:15	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 21:38		
					(End)	02/11/16 21:45		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B59 (14-20)

Lab Sample ID: 500-107297-9

Date Collected: 02/05/16 10:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 03:43	EMA	TAL CHI
Total/NA	Prep	3541			323276	02/17/16 17:08	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323328	02/18/16 15:03	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 13:44	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:29	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:27	MJD	TAL CHI

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Date Collected: 02/05/16 10:25

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:44	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:29	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:06	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 21:45		
					(End)	02/11/16 21:52		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (0-7)

Lab Sample ID: 500-107297-10

Date Collected: 02/05/16 10:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 04:09	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323516	02/19/16 13:26	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 14:47	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:33	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:33	MJD	TAL CHI

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:51	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:35	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:10	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 21:52		
					(End)	02/11/16 21:59		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 04:34	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 22:12	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 14:52	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B60 (7-14)

Lab Sample ID: 500-107297-11

Date Collected: 02/05/16 10:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:38	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:35	MJD	TAL CHI

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Date Collected: 02/05/16 10:40

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 02:57	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:42	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:14	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 22:06		
					(End)	02/11/16 22:13		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B60 (14-20)

Lab Sample ID: 500-107297-12

Date Collected: 02/05/16 10:40

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 04:59	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 22:41	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 14:56	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:42	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:37	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Date Collected: 02/05/16 11:25

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 03:04	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:49	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:18	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 22:13		
					(End)	02/11/16 22:20		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B04 (0-8)

Lab Sample ID: 500-107297-13

Date Collected: 02/05/16 11:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 05:25	EMA	TAL CHI
Total/NA	Prep	3541			323276	02/17/16 17:08	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323328	02/18/16 16:01	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:02	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:39	MJD	TAL CHI

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 03:11	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 14:55	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	322857	02/12/16 14:22	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 22:20 (End) 02/11/16 22:27	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B04 (8-17)

Lab Sample ID: 500-107297-14

Date Collected: 02/05/16 11:30

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 05:50	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 18:20	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:06	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:50	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:41	MJD	TAL CHI

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 03:18	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 15:02	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:26	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:30	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568	02/11/16 22:27 (Start) 02/11/16 22:34 (End)	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B03 (0-8)

Lab Sample ID: 500-107297-15

Date Collected: 02/05/16 11:55

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 06:15	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 18:49	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:11	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 18:54	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:43	MJD	TAL CHI

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Date Collected: 02/05/16 12:00

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 03:41	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 15:25	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:43	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	02/11/16 22:34 (Start) 02/11/16 22:41 (End)	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B03 (8-12)

Lab Sample ID: 500-107297-16

Date Collected: 02/05/16 12:00

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 06:40	EMA	TAL CHI
Total/NA	Prep	3541			323276	02/17/16 17:08	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323328	02/18/16 15:32	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:16	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 19:06	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:45	MJD	TAL CHI

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 03:47	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 15:32	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:47	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 22:41		
					(End)	02/11/16 22:48		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 07:06	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/16/16 16:24	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:21	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B02 (0-8)

Lab Sample ID: 500-107297-17

Date Collected: 02/05/16 12:20

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:47	MJD	TAL CHI

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Date Collected: 02/05/16 12:25

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 03:54	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 15:38	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:51	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 22:48		
					(End)	02/11/16 22:55		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B02 (8-15)

Lab Sample ID: 500-107297-18

Date Collected: 02/05/16 12:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 07:31	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	323052	02/17/16 00:08	GES	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:26	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 19:15	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:49	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Date Collected: 02/05/16 13:05

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 04:01	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 15:45	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 14:55	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 22:55		
					(End)	02/11/16 23:02		
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B01 (0-5)

Lab Sample ID: 500-107297-19

Date Collected: 02/05/16 13:05

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 07:57	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322984	02/16/16 19:40	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:31	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:51	MJD	TAL CHI

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322356	02/10/16 13:15	RA	TAL CHI
SPLP East	Prep	3010A			322522	02/11/16 15:25	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 04:08	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI
TCLP	Analysis	6010B		1	322811	02/13/16 15:52	PJ1	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322514	02/11/16 15:16	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	322857	02/12/16 14:59	PFK	TAL CHI
TCLP	Leach	1311			322351	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322553	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 23:02 (End) 02/11/16 23:09	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322208	02/09/16 14:39	LWN	TAL CHI

Client Sample ID: 2746-01-B01 (5-10)

Lab Sample ID: 500-107297-20

Date Collected: 02/05/16 13:10

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322898	02/16/16 08:23	EMA	TAL CHI
Total/NA	Prep	3541			322276	02/10/16 07:10	STW	TAL CHI
Total/NA	Analysis	8270D		1	322984	02/16/16 20:10	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:45	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 19:23	PJ1	TAL CHI
Total/NA	Prep	7471B			322476	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 15:57	MJD	TAL CHI

Client Sample ID: 2746-01-G03

Lab Sample ID: 500-107297-21

Date Collected: 02/05/16 13:30

Matrix: Water

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	323097	02/16/16 20:44	PMF	TAL CHI
Total/NA	Prep	3510C			322157	02/08/16 18:05	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323191	02/17/16 19:26	GES	TAL CHI
Total Recoverable	Prep	3005A			322174	02/09/16 08:37	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	322298	02/09/16 19:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			322174	02/09/16 08:37	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	322858	02/12/16 20:09	PFK	TAL CHI
Total Recoverable	Prep	3005A			322174	02/09/16 08:37	JEF	TAL CHI
Total Recoverable	Analysis	6020A		5	322858	02/12/16 20:29	PFK	TAL CHI
Total/NA	Prep	7470A			322243	02/09/16 15:45	MJD	TAL CHI
Total/NA	Analysis	7470A		1	322627	02/11/16 18:33	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Client Sample ID: 2746-00-TB01

Lab Sample ID: 500-107297-22

Date Collected: 02/05/16 00:00

Matrix: Water

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	323097	02/16/16 19:21	PMF	TAL CHI

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Date Collected: 02/05/16 14:25

Matrix: Solid

Date Received: 02/05/16 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 04:30	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 02:03	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 16:41	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 13:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:09		
					(End)	02/11/16 23:16		
Total/NA	Analysis	Moisture		1	322227	02/09/16 15:05	LWN	TAL CHI

Client Sample ID: 2746-01-B37 (0-8)

Lab Sample ID: 500-107297-23

Date Collected: 02/05/16 14:25

Matrix: Solid

Date Received: 02/05/16 16:55

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322432	02/06/16 08:25	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 13:40	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323169	02/17/16 14:52	AJD	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322809	02/13/16 15:49	PJ1	TAL CHI
Total/NA	Prep	3050B			322527	02/11/16 15:41	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322809	02/13/16 19:27	PJ1	TAL CHI
Total/NA	Prep	7471B			322484	02/11/16 15:15	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322773	02/14/16 16:03	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TestAmerica Chicago

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107297-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.1



500-107297 COC

Report To (optional)
Contact: DT
Company: SL
Address:
Address:
Phone:
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

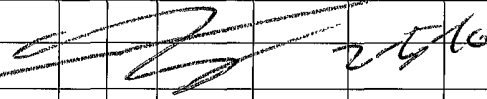
Chain of Custody Record

Lab Job #: 500-107297

Chain of Custody Number: E405-16

Page _____ of _____

Temperature °C of Cooler: 2.6, 2.9, 4.9

Client		Client Project #		Preservative		Parameter		Sampler		Lab Project #		Lab PM		Preservative Key		
EE		1809341-0045-01						S. Cooper		50011818		D. Wright		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix									Comments	
			Date	Time												
1		2746-02-1302(6-7)	2-5-16	0830	2	S	Voc	Soc	TEMP	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD		
2		2746-02-1302(7-13)	2-5-16	0635	2	S										
3		2746-02-1302(13-19)	2-5-16	0840	2	S										
 2/5/16																

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>EE</u>	Date: <u>2-5-16</u>	Time: <u>1510</u>	Received By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>2/5/16</u>	Time: <u>1510</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>2/5/16</u>	Time: <u>(6:15)</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHT</u>	Date: <u>2/5/16</u>	Time: <u>1655</u>	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)	Bill To (optional)
Contact: <u>DT</u>	Contact: _____
Company: <u>SC</u>	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107297

Chain of Custody Number: E905-17

Page _____ of _____

Temperature °C of Cooler: 2.9, 4.9, 2.6

Client		Client Project #		Preservative							Preservative Key	
<u>EE</u>		<u>1004341-0005-01</u>									1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
<u>I 90</u>		<u>SOIL 916</u>										
Project Location/State		Lab Project #										
<u>Cook County, IL</u>		<u>SOIL 916</u>										
Sampler		Lab PM										
<u>S. Cooper</u>		<u>D. Wright</u>										
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						Comments
			Date	Time								
4		2746-01-B58(0-8)	2-5-16	0920	25	VOC	X	X	X	X	X	
5		2746-01-B58(8-16)	2-5-16	0925	25	S VOC	X	X	X	X	X	
6		2746-01-B59(0-7)	2-5-16	0955	25	TOTAL TAC	X	X	X	X	X	
7		2746-01-B59(0-7)D	2-5-16	0955	25	metal	X	X	X	X	X	
8		2746-01-B59(7-14)	2-5-16	1000	25	TOTAL TAC	X	X	X	X	X	
9		2746-01-B59(14-20)	2-5-16	1005	25	metal	X	X	X	X	X	
10		2746-01-B60(0-7)	2-5-16	1025	25	TOTAL TAC	X	X	X	X	X	
11		2746-01-B60(7-14)	2-5-16	1030	25	metal	X	X	X	X	X	
12		2746-01-B60(14-20)	2-5-16	1046	25	TOTAL TAC	X	X	X	X	X	
		2746-01-SC	2-5-16									

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>EE</u>	Company: <u>EE</u>	Date: <u>2/5/16</u>	Time: <u>1510</u>	Received By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>2/5/16</u>	Time: <u>1510</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>P. Neal</u>	Company: <u>TA</u>	Date: <u>2/5/16</u>	Time: <u>1655</u>	Received By: <u>Shawn Scott</u>	Company: <u>TA-CHL</u>	Date: <u>2/5/16</u>	Time: <u>1655</u>	Shipped: _____
Relinquished By: _____	Company: _____	Date: _____	Time: _____	Received By: _____	Company: _____	Date: _____	Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: DT
 Company: SC
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107297
 Chain of Custody Number: EQ05-18
 Page _____ of _____
 Temperature °C of Cooler: 26, 29, 49

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Lab Project #		Matrix		Matrix		Matrix		Comments	
Project Location/State		Lab PM		Matrix		Matrix		Matrix		Comments	
Sampler		Lab PM		Matrix		Matrix		Matrix		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Comments
13		2746-01-B04(0-8)	2-5-16	1125	2 S	VOL	SUCC	Total TAL	TCPISUP	PAHs Solid	
14		2746-01-B04(8-17)	2-5-16	1130	2 S						
15		2746-01-B03(0-8)	2-5-16	1155	2 S						
16		2746-01-B03(8-12)	2-5-16	1200	2 S						
17		2746-01-B02(0-8)	2-5-16	1220	2 S						
18		2746-01-B02(8-15)	2-5-16	1225	2 S						
19		2746-01-B01(0-5)	2-5-16	1305	2 S						
20		2746-01-B01(5-10)	2-5-16	1310	2 S						
21		2746-01-G03	2-5-16	1330	4 W						
22		2746-00-TB01	1-22-16	-	1 W						

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days) _____
 Requested Due Date _____
 Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>SC</u> Company: <u>EC</u> Date: <u>2-5-16</u> Time: <u>1516</u>	Received By: <u>New</u> Company: <u>TA</u> Date: <u>2/5/16</u> Time: <u>1510</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>TA</u> Company: <u>TA</u> Date: <u>2/5/16</u> Time: <u>1655</u>	Received By: <u>TA</u> Company: <u>TA</u> Date: <u>2/5/16</u> Time: <u>1655</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____
 Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107297-1

Login Number: 107297

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,2.9,4.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107391-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/22/2016 1:28:45 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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- 12
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- 14
- 15



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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Job ID: 500-107391-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107391-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2016 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch 500-322973 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with preparation batch 500-322382 and analytical batch 500-323158 had 2 analytes outside control limits: Benzo[g,h,i]perylene and Dibenz(a,h)anthracene; therefore, corrective action was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01B-B03 (7-14) (500-107391-2), 2746-01B-B04 (0-8) (500-107391-4), 2746-01-B88 (0-8) (500-107391-5), 2746-01-B89 (0-8) (500-107391-6) and 2746-01-B97 (0-8) (500-107391-11). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-322606 and analytical batch 500-323046 contained Iron above the reporting limit (RL). Associated sample 2746-01B-B03 (0-7) (500-107391-1), 2746-01B-B03 (7-14) (500-107391-2), 2746-01B-B03 (14-20) (500-107391-3), 2746-01B-B04 (0-8) (500-107391-4), 2746-01-B88 (0-8) (500-107391-5), 2746-01-B89 (0-8) (500-107391-6), 2746-01-B90 (0-8) (500-107391-7), 2746-01-B91 (0-8) (500-107391-8), 2746-01-B95 (0-8) (500-107391-9), 2746-01-B96 (0-8) (500-107391-10) and 2746-01-B97 (0-8) (500-107391-11) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.025	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.065		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.1	F1	0.49	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	37	F2	0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52	F2	0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000	F2	97	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	F2 B F1	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	24	F1 F2	0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	9.7	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	17	F1	0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	F2	0.49	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	31	B	0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	700		49	6.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18	F2	0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	48		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.64	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.32	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.082	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.82		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.037	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.044		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.011	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0073	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.044		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.011	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.9		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.8	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000		110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (7-14) (Continued)

Lab Sample ID: 500-107391-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	19000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	36	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.65	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.066		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	7.80		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.021	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.026	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0099	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.060		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0078	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.017	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.1		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000		110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.32	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	260		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (14-20) (Continued)

Lab Sample ID: 500-107391-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.51	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.24	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.037	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.012	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.016	J	0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.055		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.031	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.043		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.056		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.022	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.044		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.036	J *	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.053	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000		110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37	B	0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	1400		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.52	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B04 (0-8) (Continued)

Lab Sample ID: 500-107391-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.79		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0073	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.025	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.050		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.034	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0064	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J *	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	50		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.074	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	80000		110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.5	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		28	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.58	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.30	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.25		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.031	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.093		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B89 (0-8) (Continued)

Lab Sample ID: 500-107391-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0075	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.067		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.064		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0070	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J *	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	81000		110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	360		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	30	B	0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.61		0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.62	B	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.013	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.07		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.035	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.10		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.051		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.1		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000		120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	32		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B90 (0-8) (Continued)

Lab Sample ID: 500-107391-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.94		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	440		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.12	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.035	0.0054	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.027	J	0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0059	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.018	J	0.035	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.042		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
N-Nitrosodiphenylamine	0.042	J	0.18	0.041	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.33		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.21		0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.90		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.1		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.51		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.66		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.70		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.30		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.42		0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.036	*	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.10	*	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.47	0.086	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.097		0.094	0.027	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000		94	30	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.47	0.081	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.1		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B91 (0-8) (Continued)

Lab Sample ID: 500-107391-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	13000	B	9.4	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.47	0.093	mg/Kg	1	☼	6010B	Total/NA
Nickel	23	B	0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.66		0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	670		47	6.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		0.94	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.55		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.65	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0091		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	3.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.24	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.041		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.45		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.017	0.0087	mg/Kg	1	☼	7471B	Total/NA
pH	8.05		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.016	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.045		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.015	J	0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.22		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.023	J	0.039	0.0066	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.32		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.41		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.12		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.16		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.24		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.090		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.066		0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J *	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.059	*	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000		110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	20	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.53	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B95 (0-8) (Continued)

Lab Sample ID: 500-107391-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	17000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	74		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.53	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	32	B	0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	780		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.26	0.077	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.075	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0093		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.041	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.13		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.90		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.02		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.017	J	0.038	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.049		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.042		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.016	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	51		0.47	0.086	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000		94	30	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.47	0.081	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	9.4	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.47	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	35	B	0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	490		47	6.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.37	J	0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		0.94	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.78		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.10	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.029		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B96 (0-8) (Continued)

Lab Sample ID: 500-107391-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.26	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.99		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.89		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.046		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.052		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.028	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0058	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000		110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35	B	0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.54		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	660		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.62	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.48	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.031		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.80		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107391-1	2746-01B-B03 (0-7)	Solid	02/08/16 11:00	02/09/16 13:30
500-107391-2	2746-01B-B03 (7-14)	Solid	02/08/16 11:15	02/09/16 13:30
500-107391-3	2746-01B-B03 (14-20)	Solid	02/08/16 11:22	02/09/16 13:30
500-107391-4	2746-01B-B04 (0-8)	Solid	02/08/16 11:40	02/09/16 13:30
500-107391-5	2746-01-B88 (0-8)	Solid	02/08/16 11:53	02/09/16 13:30
500-107391-6	2746-01-B89 (0-8)	Solid	02/08/16 12:26	02/09/16 13:30
500-107391-7	2746-01-B90 (0-8)	Solid	02/08/16 12:45	02/09/16 13:30
500-107391-8	2746-01-B91 (0-8)	Solid	02/08/16 13:40	02/09/16 13:30
500-107391-9	2746-01-B95 (0-8)	Solid	02/08/16 13:50	02/09/16 13:30
500-107391-10	2746-01-B96 (0-8)	Solid	02/08/16 14:15	02/09/16 13:30
500-107391-11	2746-01-B97 (0-8)	Solid	02/08/16 14:27	02/09/16 13:30



Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Date Collected: 02/08/16 11:00

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/09/16 17:47	02/16/16 14:05	1
Dibromofluoromethane	93		75 - 120	02/09/16 17:47	02/16/16 14:05	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/09/16 17:47	02/16/16 14:05	1
Toluene-d8 (Surr)	105		75 - 122	02/09/16 17:47	02/16/16 14:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Date Collected: 02/08/16 11:00

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2-Methylnaphthalene	0.025	J	0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Phenanthrene	0.065		0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Pyrene	0.015	J	0.038	0.0075	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Date Collected: 02/08/16 11:00

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.022	J	0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Dibenz(a,h)anthracene	<0.038	*	0.038	0.0073	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 17:42	02/19/16 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/10/16 17:42	02/19/16 16:15	1
Phenol-d5	80		31 - 110	02/10/16 17:42	02/19/16 16:15	1
Nitrobenzene-d5	67		25 - 115	02/10/16 17:42	02/19/16 16:15	1
2-Fluorobiphenyl	64		25 - 119	02/10/16 17:42	02/19/16 16:15	1
2,4,6-Tribromophenol	59		35 - 137	02/10/16 17:42	02/19/16 16:15	1
Terphenyl-d14	96		36 - 134	02/10/16 17:42	02/19/16 16:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97	F1 F2	0.97	0.20	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Arsenic	7.1	F1	0.49	0.22	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Barium	37	F2	0.49	0.089	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Beryllium	0.52	F2	0.19	0.042	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Boron	12		2.4	0.34	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Cadmium	<0.097		0.097	0.028	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Calcium	60000	F2	97	31	mg/Kg	☼	02/12/16 09:34	02/16/16 07:12	10
Chromium	15	F2 B F1	0.49	0.084	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Cobalt	12		0.24	0.055	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Copper	24	F1 F2	0.49	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Iron	17000	B	9.7	3.8	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Lead	17	F1	0.24	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Magnesium	25000		4.9	2.0	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Manganese	360	F2	0.49	0.096	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Nickel	31	B	0.49	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Potassium	2200		24	4.0	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Selenium	<0.49	F1	0.49	0.24	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Sodium	700		49	6.4	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Vanadium	18	F2	0.24	0.071	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1
Zinc	48		0.97	0.31	mg/Kg	☼	02/12/16 09:34	02/16/16 03:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 02:10	1
Boron	0.64	B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Date Collected: 02/08/16 11:00

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 02:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:10	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:10	1
Iron	0.32	J	0.40	0.20	mg/L		02/11/16 15:20	02/14/16 02:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 02:10	1
Manganese	2.0		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:10	1
Nickel	0.038		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 02:10	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:10	1
Zinc	0.082	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 02:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 04:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 16:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 16:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 19:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.82		0.200	0.200	SU			02/11/16 23:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Benzene	<0.0043		0.0043	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Chloroethane	<0.0043	*	0.0043	0.0018	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Dibromochloromethane	<0.0043		0.0043	0.00050	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Tetrachloroethene	<0.0043		0.0043	0.00090	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Vinyl acetate	<0.0043		0.0043	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/09/16 17:47	02/16/16 14:31	1
Dibromofluoromethane	95		75 - 120	02/09/16 17:47	02/16/16 14:31	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/09/16 17:47	02/16/16 14:31	1
Toluene-d8 (Surr)	106		75 - 122	02/09/16 17:47	02/16/16 14:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Naphthalene	0.037	J	0.038	0.0058	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2-Methylnaphthalene	0.044		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Acenaphthene	0.011	J	0.038	0.0068	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Fluorene	0.0073	J	0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Phenanthrene	0.044		0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Pyrene	0.013	J	0.038	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.011	J	0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Dibenz(a,h)anthracene	<0.038	*	0.038	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110				02/10/16 17:42	02/20/16 16:27	1
Phenol-d5	62		31 - 110				02/10/16 17:42	02/20/16 16:27	1
Nitrobenzene-d5	40		25 - 115				02/10/16 17:42	02/20/16 16:27	1
2-Fluorobiphenyl	58		25 - 119				02/10/16 17:42	02/20/16 16:27	1
2,4,6-Tribromophenol	29	X	35 - 137				02/10/16 17:42	02/20/16 16:27	1
Terphenyl-d14	70		36 - 134				02/10/16 17:42	02/20/16 16:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Arsenic	9.9		0.55	0.25	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Barium	40		0.55	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Beryllium	0.69		0.22	0.048	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Boron	16		2.8	0.38	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Calcium	59000		110	35	mg/Kg	☼	02/12/16 09:34	02/16/16 07:41	10
Chromium	18	B	0.55	0.095	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Cobalt	14		0.28	0.062	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Copper	30		0.55	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Iron	19000	B	11	4.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Lead	16		0.28	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Magnesium	26000		5.5	2.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Manganese	380		0.55	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Nickel	36	B	0.55	0.15	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Potassium	2900		28	4.5	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Sodium	200		55	7.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Vanadium	20		0.28	0.080	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1
Zinc	61		1.1	0.35	mg/Kg	☼	02/12/16 09:34	02/16/16 04:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.67		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 02:16	1
Boron	0.65	B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 02:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:16	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:16	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 02:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 02:16	1
Manganese	2.0		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:16	1
Nickel	0.029		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 02:16	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:16	1
Zinc	0.10	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 02:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.066		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 05:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 16:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 16:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.0098	mg/Kg	☼	02/14/16 19:45	02/15/16 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			02/11/16 23:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Chloroethane	<0.0045	*	0.0045	0.0019	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/09/16 17:47	02/16/16 14:56	1
Dibromofluoromethane	96		75 - 120	02/09/16 17:47	02/16/16 14:56	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/09/16 17:47	02/16/16 14:56	1
Toluene-d8 (Surr)	103		75 - 122	02/09/16 17:47	02/16/16 14:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Naphthalene	0.021	J	0.039	0.0060	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2-Methylnaphthalene	0.026	J	0.039	0.0072	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Acenaphthene	0.014	J	0.039	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Fluorene	0.0099	J	0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Phenanthrene	0.060		0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Fluoranthene	0.0078	J	0.039	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Pyrene	0.017	J	0.039	0.0078	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.039	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Dibenz(a,h)anthracene	<0.039	*	0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110				02/10/16 17:42	02/20/16 16:56	1
Phenol-d5	66		31 - 110				02/10/16 17:42	02/20/16 16:56	1
Nitrobenzene-d5	60		25 - 115				02/10/16 17:42	02/20/16 16:56	1
2-Fluorobiphenyl	63		25 - 119				02/10/16 17:42	02/20/16 16:56	1
2,4,6-Tribromophenol	36		35 - 137				02/10/16 17:42	02/20/16 16:56	1
Terphenyl-d14	76		36 - 134				02/10/16 17:42	02/20/16 16:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Arsenic	6.3		0.55	0.25	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Barium	42		0.55	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Beryllium	0.59		0.22	0.047	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Boron	16		2.7	0.38	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Cadmium	1.1		0.11	0.032	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Calcium	70000		110	35	mg/Kg	☼	02/12/16 09:34	02/16/16 07:45	10
Chromium	17	B	0.55	0.094	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Cobalt	12		0.27	0.062	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Copper	25		0.55	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Iron	17000	B	11	4.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Lead	12		0.27	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Magnesium	31000		5.5	2.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Manganese	370		0.55	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Nickel	30	B	0.55	0.15	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Potassium	2800		27	4.5	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Selenium	0.44	J	0.55	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Sodium	200		55	7.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Thallium	0.32	J	0.55	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Vanadium	19		0.27	0.080	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1
Zinc	260		1.1	0.35	mg/Kg	☼	02/12/16 09:34	02/16/16 04:13	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 02:59	1
Boron	0.51	B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 02:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 02:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:59	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:59	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 02:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 02:59	1
Manganese	2.1		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:59	1
Nickel	0.027		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 02:59	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 02:59	1
Zinc	0.24	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 02:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 05:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0091	mg/Kg	☼	02/14/16 19:45	02/15/16 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			02/11/16 23:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Date Collected: 02/08/16 11:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/09/16 17:47	02/16/16 15:21	1
Dibromofluoromethane	98		75 - 120	02/09/16 17:47	02/16/16 15:21	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/09/16 17:47	02/16/16 15:21	1
Toluene-d8 (Surr)	105		75 - 122	02/09/16 17:47	02/16/16 15:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Date Collected: 02/08/16 11:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Naphthalene	0.011	J	0.038	0.0058	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2-Methylnaphthalene	0.037	J	0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Acenaphthene	0.012	J	0.038	0.0068	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Fluorene	0.011	J	0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Phenanthrene	0.11		0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Anthracene	0.016	J	0.038	0.0063	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Fluoranthene	0.055		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Pyrene	0.15		0.038	0.0075	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Benzo[a]anthracene	0.031	J	0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Date Collected: 02/08/16 11:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.043		0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Benzo[b]fluoranthene	0.056		0.038	0.0082	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Benzo[k]fluoranthene	0.022 J		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Benzo[a]pyrene	0.044		0.038	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Indeno[1,2,3-cd]pyrene	0.024 J		0.038	0.0098	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Dibenz(a,h)anthracene	<0.038 *		0.038	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Benzo[g,h,i]perylene	0.036 J *		0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	57		25 - 110				02/10/16 17:42	02/20/16 19:53	1
Phenol-d5	63		31 - 110				02/10/16 17:42	02/20/16 19:53	1
Nitrobenzene-d5	54		25 - 115				02/10/16 17:42	02/20/16 19:53	1
2-Fluorobiphenyl	61		25 - 119				02/10/16 17:42	02/20/16 19:53	1
2,4,6-Tribromophenol	82		35 - 137				02/10/16 17:42	02/20/16 19:53	1
Terphenyl-d14	173 X		36 - 134				02/10/16 17:42	02/20/16 19:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Arsenic	6.1		0.57	0.26	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Barium	40		0.57	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Boron	14		2.8	0.40	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Cadmium	0.053 J		0.11	0.033	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Calcium	58000		110	36	mg/Kg	☼	02/12/16 09:34	02/16/16 07:49	10
Chromium	17 B		0.57	0.097	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Cobalt	14		0.28	0.064	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Copper	30		0.57	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Iron	20000 B		11	4.4	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Lead	16		0.28	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Magnesium	25000		5.7	2.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Manganese	350		0.57	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Nickel	37 B		0.57	0.15	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Potassium	2600		28	4.6	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Selenium	0.47 J		0.57	0.28	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Sodium	1400		57	7.5	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Vanadium	19		0.28	0.083	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1
Zinc	56		1.1	0.36	mg/Kg	☼	02/12/16 09:34	02/16/16 04:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:06	1
Boron	0.52 B		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Date Collected: 02/08/16 11:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:06	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:06	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:06	1
Manganese	2.4		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:06	1
Nickel	0.027		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:06	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:06	1
Zinc	0.17	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.79		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 05:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0090	mg/Kg	☼	02/14/16 19:45	02/15/16 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU			02/11/16 23:37	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Bromodichloromethane	<0.0041		0.0041	0.00068	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,1-Dichloroethane	<0.0041		0.0041	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Vinyl chloride	<0.0041		0.0041	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/09/16 17:47	02/16/16 15:47	1
Dibromofluoromethane	93		75 - 120	02/09/16 17:47	02/16/16 15:47	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	02/09/16 17:47	02/16/16 15:47	1
Toluene-d8 (Surr)	106		75 - 122	02/09/16 17:47	02/16/16 15:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Naphthalene	0.0073	J	0.038	0.0059	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2-Methylnaphthalene	0.025	J	0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Phenanthrene	0.050		0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Pyrene	0.034	J	0.038	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Benzo[a]anthracene	0.0064	J	0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Dibenz(a,h)anthracene	<0.038	*	0.038	0.0074	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
Benzo[g,h,i]perylene	0.023	J *	0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		25 - 110	02/10/16 17:42	02/20/16 20:22	1
Phenol-d5	58		31 - 110	02/10/16 17:42	02/20/16 20:22	1
Nitrobenzene-d5	62		25 - 115	02/10/16 17:42	02/20/16 20:22	1
2-Fluorobiphenyl	66		25 - 119	02/10/16 17:42	02/20/16 20:22	1
2,4,6-Tribromophenol	73		35 - 137	02/10/16 17:42	02/20/16 20:22	1
Terphenyl-d14	182	X	36 - 134	02/10/16 17:42	02/20/16 20:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Arsenic	5.6		0.55	0.26	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Barium	50		0.55	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Beryllium	0.60		0.22	0.048	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Boron	15		2.8	0.39	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Cadmium	0.074	J	0.11	0.032	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Calcium	80000		110	36	mg/Kg	☼	02/12/16 09:34	02/16/16 07:53	10
Chromium	17	B	0.55	0.095	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Cobalt	11		0.28	0.063	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Copper	22		0.55	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Iron	15000	B	11	4.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Lead	19		0.28	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Magnesium	35000		5.5	2.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Manganese	300		0.55	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Nickel	29	B	0.55	0.15	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Potassium	2700		28	4.5	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Sodium	590		55	7.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Vanadium	20		0.28	0.081	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1
Zinc	49		1.1	0.35	mg/Kg	☼	02/12/16 09:34	02/16/16 04:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:13	1
Boron	0.58	B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:13	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:13	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:13	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:13	1
Manganese	2.1		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:13	1
Nickel	0.027		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:13	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:13	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:13	1
Zinc	0.30	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.25		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 05:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:22	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			02/11/16 23:44	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Date Collected: 02/08/16 12:26

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/09/16 17:47	02/16/16 16:12	1
Dibromofluoromethane	93		75 - 120	02/09/16 17:47	02/16/16 16:12	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/09/16 17:47	02/16/16 16:12	1
Toluene-d8 (Surr)	108		75 - 122	02/09/16 17:47	02/16/16 16:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Date Collected: 02/08/16 12:26

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Naphthalene	0.031	J	0.039	0.0060	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2-Methylnaphthalene	0.093		0.039	0.0072	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Fluorene	0.0075	J	0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Phenanthrene	0.067		0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Fluoranthene	0.011	J	0.039	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Pyrene	0.064		0.039	0.0078	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Benzo[a]anthracene	0.0070	J	0.039	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Date Collected: 02/08/16 12:26

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.039	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Dibenz(a,h)anthracene	<0.039	*	0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
Benzo[g,h,i]perylene	0.034	J *	0.039	0.013	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110	02/10/16 17:42	02/20/16 20:52	1
Phenol-d5	66		31 - 110	02/10/16 17:42	02/20/16 20:52	1
Nitrobenzene-d5	60		25 - 115	02/10/16 17:42	02/20/16 20:52	1
2-Fluorobiphenyl	65		25 - 119	02/10/16 17:42	02/20/16 20:52	1
2,4,6-Tribromophenol	50		35 - 137	02/10/16 17:42	02/20/16 20:52	1
Terphenyl-d14	168	X	36 - 134	02/10/16 17:42	02/20/16 20:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Arsenic	5.4		0.53	0.24	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Barium	38		0.53	0.097	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Beryllium	0.56		0.21	0.046	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Boron	14		2.6	0.37	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Calcium	81000		110	34	mg/Kg	☼	02/12/16 09:34	02/16/16 07:57	10
Chromium	16	B	0.53	0.091	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Cobalt	11		0.26	0.060	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Copper	25		0.53	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Iron	16000	B	11	4.1	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Lead	14		0.26	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Magnesium	35000		5.3	2.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Manganese	360		0.53	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Nickel	30	B	0.53	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Potassium	2500		26	4.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Selenium	0.61		0.53	0.26	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Sodium	820		53	7.0	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Vanadium	18		0.26	0.077	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1
Zinc	43		1.1	0.34	mg/Kg	☼	02/12/16 09:34	02/16/16 04:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:20	1
Boron	0.62	B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Date Collected: 02/08/16 12:26

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Iron	<0.40		0.40	0.20	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Manganese	1.9		0.025	0.010	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Nickel	0.024	J	0.025	0.010	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Silver	<0.025		0.025	0.010	mg/L	-	02/11/16 15:20	02/14/16 03:20	1
Zinc	0.21	J B	0.50	0.020	mg/L	-	02/11/16 15:20	02/14/16 03:20	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L	-	02/11/16 15:29	02/13/16 05:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/11/16 15:20	02/12/16 17:26	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/11/16 15:20	02/12/16 17:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/11/16 18:30	02/14/16 14:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.018	0.0096	mg/Kg	☼	02/14/16 19:45	02/15/16 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU	-		02/11/16 23:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Date Collected: 02/08/16 12:45

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
2-Butanone (MEK)	<0.0038		0.0038	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Chlorobenzene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00086	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Dibromochloromethane	<0.0038		0.0038	0.00043	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Styrene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/09/16 17:47	02/16/16 16:38	1
Dibromofluoromethane	96		75 - 120	02/09/16 17:47	02/16/16 16:38	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/09/16 17:47	02/16/16 16:38	1
Toluene-d8 (Surr)	106		75 - 122	02/09/16 17:47	02/16/16 16:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Date Collected: 02/08/16 12:45

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Naphthalene	0.035	J	0.038	0.0059	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2-Methylnaphthalene	0.10		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Phenanthrene	0.051		0.038	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Pyrene	0.018	J	0.038	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Date Collected: 02/08/16 12:45

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Dibenz(a,h)anthracene	<0.038	*	0.038	0.0074	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110				02/10/16 17:42	02/20/16 17:26	1
Phenol-d5	65		31 - 110				02/10/16 17:42	02/20/16 17:26	1
Nitrobenzene-d5	59		25 - 115				02/10/16 17:42	02/20/16 17:26	1
2-Fluorobiphenyl	63		25 - 119				02/10/16 17:42	02/20/16 17:26	1
2,4,6-Tribromophenol	42		35 - 137				02/10/16 17:42	02/20/16 17:26	1
Terphenyl-d14	105		36 - 134				02/10/16 17:42	02/20/16 17:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Arsenic	7.1		0.58	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Barium	37		0.58	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Beryllium	0.60		0.23	0.050	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Boron	14		2.9	0.40	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Calcium	66000		120	37	mg/Kg	☼	02/12/16 09:34	02/16/16 08:02	10
Chromium	15	B	0.58	0.099	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Cobalt	12		0.29	0.065	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Copper	32		0.58	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Lead	16		0.29	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Magnesium	31000		5.8	2.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Manganese	420		0.58	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Nickel	33	B	0.58	0.16	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Potassium	2400		29	4.7	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Selenium	0.94		0.58	0.29	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Sodium	440		58	7.6	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Vanadium	18		0.29	0.084	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1
Zinc	54		1.2	0.37	mg/Kg	☼	02/12/16 09:34	02/16/16 04:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.69		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:26	1
Boron	0.12	J B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Date Collected: 02/08/16 12:45

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:26	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:26	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:26	1
Manganese	2.2		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:26	1
Nickel	0.039		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:26	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:26	1
Zinc	0.15	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 05:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0095	mg/Kg	☼	02/14/16 19:45	02/15/16 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			02/11/16 23:58	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 92.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Chloroethane	<0.0037	*	0.0037	0.0016	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Chloroform	<0.0037		0.0037	0.00073	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Chloromethane	<0.0037		0.0037	0.00090	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,2-Dichloropropane	<0.0037		0.0037	0.00098	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,3-Dichloropropane, Total	<0.0037		0.0037	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Ethylbenzene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Styrene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Tetrachloroethene	<0.0037		0.0037	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00087	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Vinyl chloride	<0.0037		0.0037	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/09/16 17:47	02/16/16 17:04	1
Dibromofluoromethane	96		75 - 120	02/09/16 17:47	02/16/16 17:04	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/09/16 17:47	02/16/16 17:04	1
Toluene-d8 (Surr)	107		75 - 122	02/09/16 17:47	02/16/16 17:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.077	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.040	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
N-Nitrosodi-n-propylamine	<0.070		0.070	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2-Chlorophenol	<0.18		0.18	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Naphthalene	0.014	J	0.035	0.0054	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4-Chloroaniline	<0.70		0.70	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,4,5-Trichlorophenol	<0.35		0.35	0.079	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Hexachlorocyclopentadiene	<0.70		0.70	0.20	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2-Methylnaphthalene	0.027	J	0.035	0.0064	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2-Chloronaphthalene	<0.18		0.18	0.038	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,6-Dinitrotoluene	<0.18		0.18	0.068	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2-Nitrophenol	<0.35		0.35	0.082	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,4-Dinitrophenol	<0.70		0.70	0.61	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Acenaphthylene	0.0059	J	0.035	0.0046	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
2,4-Dinitrotoluene	<0.18		0.18	0.055	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Acenaphthene	0.018	J	0.035	0.0063	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4-Nitrophenol	<0.70		0.70	0.33	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Fluorene	0.042		0.035	0.0049	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Hexachlorobenzene	<0.070		0.070	0.0081	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Pentachlorophenol	<0.70		0.70	0.56	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
N-Nitrosodiphenylamine	0.042	J	0.18	0.041	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
4,6-Dinitro-2-methylphenol	<0.70		0.70	0.28	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Phenanthrene	0.33		0.035	0.0049	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Anthracene	0.21		0.035	0.0058	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Fluoranthene	0.90		0.035	0.0065	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Pyrene	1.1		0.035	0.0069	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Butyl benzyl phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Benzo[a]anthracene	0.51		0.035	0.0047	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.66		0.035	0.0095	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Benzo[b]fluoranthene	0.70		0.035	0.0075	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Benzo[k]fluoranthene	0.30		0.035	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Benzo[a]pyrene	0.42		0.035	0.0067	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Indeno[1,2,3-cd]pyrene	0.13		0.035	0.0090	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Dibenz(a,h)anthracene	0.036 *		0.035	0.0067	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
Benzo[g,h,i]perylene	0.10 *		0.035	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		25 - 110	02/10/16 17:42	02/20/16 17:55	1
Phenol-d5	54		31 - 110	02/10/16 17:42	02/20/16 17:55	1
Nitrobenzene-d5	47		25 - 115	02/10/16 17:42	02/20/16 17:55	1
2-Fluorobiphenyl	52		25 - 119	02/10/16 17:42	02/20/16 17:55	1
2,4,6-Tribromophenol	52		35 - 137	02/10/16 17:42	02/20/16 17:55	1
Terphenyl-d14	104		36 - 134	02/10/16 17:42	02/20/16 17:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.94		0.94	0.20	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Arsenic	4.5		0.47	0.22	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Barium	36		0.47	0.086	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Beryllium	0.51		0.19	0.041	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Boron	11		2.4	0.33	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Cadmium	0.097		0.094	0.027	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Calcium	69000		94	30	mg/Kg	☼	02/12/16 09:34	02/16/16 09:00	10
Chromium	14 B		0.47	0.081	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Cobalt	9.1		0.24	0.053	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Copper	23		0.47	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Iron	13000 B		9.4	3.6	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Lead	36		0.24	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Magnesium	31000		4.7	1.9	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Manganese	350		0.47	0.093	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Nickel	23 B		0.47	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Potassium	1900		24	3.9	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Selenium	0.66		0.47	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Sodium	670		47	6.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Vanadium	16		0.24	0.069	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1
Zinc	51		0.94	0.30	mg/Kg	☼	02/12/16 09:34	02/16/16 04:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.55		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:33	1
Boron	0.65 B		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 92.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:33	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:33	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:33	1
Lead	0.0091		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:33	1
Manganese	3.6		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:33	1
Nickel	0.026		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:33	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:33	1
Zinc	0.24	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:33	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.041		0.0075	0.0075	mg/L		02/11/16 15:29	02/13/16 06:01	1
Manganese	0.45		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 06:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0087	mg/Kg	☼	02/14/16 19:45	02/15/16 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			02/12/16 00:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/09/16 17:47	02/16/16 17:29	1
Dibromofluoromethane	96		75 - 120	02/09/16 17:47	02/16/16 17:29	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/09/16 17:47	02/16/16 17:29	1
Toluene-d8 (Surr)	104		75 - 122	02/09/16 17:47	02/16/16 17:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Naphthalene	0.016	J	0.039	0.0061	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4-Chloroaniline	<0.79		0.79	0.19	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2-Methylnaphthalene	0.045		0.039	0.0072	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Acenaphthene	0.015	J	0.039	0.0071	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Fluorene	0.014	J	0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Phenanthrene	0.22		0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Anthracene	0.023	J	0.039	0.0066	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Fluoranthene	0.32		0.039	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Pyrene	0.41		0.039	0.0078	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Benzo[a]anthracene	0.12		0.039	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.039	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Benzo[b]fluoranthene	0.24		0.039	0.0085	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Benzo[k]fluoranthene	0.090		0.039	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Benzo[a]pyrene	0.13		0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Indeno[1,2,3-cd]pyrene	0.066		0.039	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Dibenz(a,h)anthracene	0.015	J *	0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
Benzo[g,h,i]perylene	0.059	*	0.039	0.013	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	02/10/16 17:42	02/20/16 18:25	1
Phenol-d5	64		31 - 110	02/10/16 17:42	02/20/16 18:25	1
Nitrobenzene-d5	58		25 - 115	02/10/16 17:42	02/20/16 18:25	1
2-Fluorobiphenyl	60		25 - 119	02/10/16 17:42	02/20/16 18:25	1
2,4,6-Tribromophenol	39		35 - 137	02/10/16 17:42	02/20/16 18:25	1
Terphenyl-d14	112		36 - 134	02/10/16 17:42	02/20/16 18:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Arsenic	6.1		0.53	0.24	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Barium	40		0.53	0.097	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Beryllium	0.59		0.21	0.046	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Boron	14		2.6	0.37	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Cadmium	0.13		0.11	0.031	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Calcium	65000		110	34	mg/Kg	☼	02/12/16 09:34	02/16/16 09:04	10
Chromium	20	B	0.53	0.091	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Cobalt	12		0.26	0.060	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Copper	29		0.53	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Iron	17000	B	11	4.1	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Lead	74		0.26	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Magnesium	27000		5.3	2.1	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Manganese	340		0.53	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Nickel	32	B	0.53	0.14	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Potassium	2500		26	4.3	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Sodium	780		53	7.0	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Vanadium	20		0.26	0.077	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1
Zinc	65		1.1	0.34	mg/Kg	☼	02/12/16 09:34	02/16/16 04:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:40	1
Boron	0.075	J B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:40	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:40	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:40	1
Lead	0.0093		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:40	1
Manganese	2.5		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:40	1
Nickel	0.032		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:40	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:40	1
Zinc	0.041	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:40	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.13		0.0075	0.0075	mg/L		02/11/16 15:29	02/13/16 06:08	1
Manganese	0.90		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 06:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0097	mg/Kg	☼	02/14/16 19:45	02/15/16 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			02/12/16 00:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Date Collected: 02/08/16 14:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Chlorobenzene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/09/16 17:47	02/16/16 17:54	1
Dibromofluoromethane	99		75 - 120	02/09/16 17:47	02/16/16 17:54	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/09/16 17:47	02/16/16 17:54	1
Toluene-d8 (Surr)	106		75 - 122	02/09/16 17:47	02/16/16 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Date Collected: 02/08/16 14:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Naphthalene	0.017	J	0.038	0.0060	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2-Methylnaphthalene	0.049		0.038	0.0071	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Phenanthrene	0.042		0.038	0.0054	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Pyrene	0.018	J	0.038	0.0077	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Date Collected: 02/08/16 14:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.016	J	0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Dibenz(a,h)anthracene	<0.038	*	0.038	0.0075	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
Benzo[g,h,i]perylene	<0.038	*	0.038	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	60		25 - 110	02/10/16 17:42	02/20/16 18:54	1
Phenol-d5	59		31 - 110	02/10/16 17:42	02/20/16 18:54	1
Nitrobenzene-d5	58		25 - 115	02/10/16 17:42	02/20/16 18:54	1
2-Fluorobiphenyl	59		25 - 119	02/10/16 17:42	02/20/16 18:54	1
2,4,6-Tribromophenol	36		35 - 137	02/10/16 17:42	02/20/16 18:54	1
Terphenyl-d14	103		36 - 134	02/10/16 17:42	02/20/16 18:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.94		0.94	0.20	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Arsenic	4.9		0.47	0.22	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Barium	51		0.47	0.086	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Beryllium	0.65		0.19	0.041	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Boron	14		2.4	0.33	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Cadmium	<0.094		0.094	0.027	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Calcium	60000		94	30	mg/Kg	☼	02/12/16 09:34	02/16/16 09:08	10
Chromium	18	B	0.47	0.081	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Cobalt	13		0.24	0.053	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Copper	24		0.47	0.10	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Iron	18000	B	9.4	3.6	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Lead	12		0.24	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Magnesium	25000		4.7	1.9	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Manganese	340		0.47	0.094	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Nickel	35	B	0.47	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Potassium	2900		24	3.9	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Silver	<0.24		0.24	0.055	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Sodium	490		47	6.2	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Thallium	0.37	J	0.47	0.23	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Vanadium	20		0.24	0.069	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1
Zinc	52		0.94	0.30	mg/Kg	☼	02/12/16 09:34	02/16/16 04:56	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.78		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:47	1
Boron	0.10	J B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Date Collected: 02/08/16 14:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:47	1
Cobalt	0.029		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:47	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:47	1
Manganese	2.5		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:47	1
Nickel	0.053		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:47	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:47	1
Zinc	0.26	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.99		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 06:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			02/12/16 00:19	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/09/16 17:47	02/16/16 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/09/16 17:47	02/16/16 18:20	1
Dibromofluoromethane	97		75 - 120	02/09/16 17:47	02/16/16 18:20	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/09/16 17:47	02/16/16 18:20	1
Toluene-d8 (Surr)	108		75 - 122	02/09/16 17:47	02/16/16 18:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Naphthalene	0.024	J	0.039	0.0060	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2-Methylnaphthalene	0.046		0.039	0.0072	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Phenanthrene	0.052		0.039	0.0055	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Pyrene	0.028	J	0.039	0.0078	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Benzo[a]anthracene	0.0058	J	0.039	0.0053	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.039	0.011	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Dibenz(a,h)anthracene	<0.039	*	0.039	0.0076	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Benzo[g,h,i]perylene	<0.039	*	0.039	0.013	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/10/16 17:42	02/20/16 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110				02/10/16 17:42	02/20/16 19:24	1
Phenol-d5	63		31 - 110				02/10/16 17:42	02/20/16 19:24	1
Nitrobenzene-d5	69		25 - 115				02/10/16 17:42	02/20/16 19:24	1
2-Fluorobiphenyl	73		25 - 119				02/10/16 17:42	02/20/16 19:24	1
2,4,6-Tribromophenol	19	X	35 - 137				02/10/16 17:42	02/20/16 19:24	1
Terphenyl-d14	123		36 - 134				02/10/16 17:42	02/20/16 19:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Arsenic	5.4		0.54	0.25	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Barium	38		0.54	0.099	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Beryllium	0.70		0.22	0.047	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Boron	16		2.7	0.38	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Calcium	65000		110	35	mg/Kg	☼	02/12/16 09:34	02/16/16 09:12	10
Chromium	19	B	0.54	0.093	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Cobalt	14		0.27	0.061	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Copper	24		0.54	0.12	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Iron	18000	B	11	4.2	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Lead	17		0.27	0.13	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Magnesium	27000		5.4	2.2	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Manganese	370		0.54	0.11	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Nickel	35	B	0.54	0.15	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Potassium	3000		27	4.4	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Selenium	0.54		0.54	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Sodium	660		54	7.2	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Vanadium	21		0.27	0.079	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1
Zinc	57		1.1	0.34	mg/Kg	☼	02/12/16 09:34	02/16/16 05:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 03:53	1
Boron	0.62	B	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 03:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 03:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:53	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:53	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 03:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 03:53	1
Manganese	2.0		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:53	1
Nickel	0.034		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 03:53	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 03:53	1
Zinc	0.48	J B	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 03:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 06:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 17:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 17:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 14:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0094	mg/Kg	☼	02/14/16 19:45	02/15/16 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			02/12/16 00:26	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

GC/MS VOA

Prep Batch: 322492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	5035	
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	5035	
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	5035	
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	5035	
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	5035	
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	5035	
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	5035	
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	5035	
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	5035	
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	5035	
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	5035	

Analysis Batch: 322973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	8260B	322492
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	8260B	322492
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	8260B	322492
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	8260B	322492
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	8260B	322492
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	8260B	322492
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	8260B	322492
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	8260B	322492
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	8260B	322492
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	8260B	322492
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	8260B	322492
LCS 500-322973/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-322973/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-322973/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 322382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	3541	
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	3541	
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	3541	
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	3541	
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	3541	
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	3541	
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	3541	
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	3541	
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	3541	
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	3541	
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	3541	
LCS 500-322382/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322382/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 323158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322382/2-A	Lab Control Sample	Total/NA	Solid	8270D	322382

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

GC/MS Semi VOA (Continued)

Analysis Batch: 323158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-322382/1-A	Method Blank	Total/NA	Solid	8270D	322382

Analysis Batch: 323575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	8270D	322382

Analysis Batch: 323708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	8270D	322382
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	8270D	322382
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	8270D	322382
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	8270D	322382
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	8270D	322382
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	8270D	322382
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	8270D	322382
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	8270D	322382
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	8270D	322382
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	8270D	322382

Metals

Leach Batch: 322353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	TCLP	Solid	1311	
500-107391-1 DU	2746-01B-B03 (0-7)	TCLP	Solid	1311	
500-107391-1 MS	2746-01B-B03 (0-7)	TCLP	Solid	1311	
500-107391-2	2746-01B-B03 (7-14)	TCLP	Solid	1311	
500-107391-2 DU	2746-01B-B03 (7-14)	TCLP	Solid	1311	
500-107391-2 MS	2746-01B-B03 (7-14)	TCLP	Solid	1311	
500-107391-3	2746-01B-B03 (14-20)	TCLP	Solid	1311	
500-107391-4	2746-01B-B04 (0-8)	TCLP	Solid	1311	
500-107391-5	2746-01-B88 (0-8)	TCLP	Solid	1311	
500-107391-6	2746-01-B89 (0-8)	TCLP	Solid	1311	
500-107391-7	2746-01-B90 (0-8)	TCLP	Solid	1311	
500-107391-8	2746-01-B91 (0-8)	TCLP	Solid	1311	
500-107391-9	2746-01-B95 (0-8)	TCLP	Solid	1311	
500-107391-10	2746-01-B96 (0-8)	TCLP	Solid	1311	
500-107391-11	2746-01-B97 (0-8)	TCLP	Solid	1311	
LB 500-322353/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322353/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	SPLP East	Solid	1312	
500-107391-1 DU	2746-01B-B03 (0-7)	SPLP East	Solid	1312	
500-107391-1 MS	2746-01B-B03 (0-7)	SPLP East	Solid	1312	
500-107391-2	2746-01B-B03 (7-14)	SPLP East	Solid	1312	
500-107391-3	2746-01B-B03 (14-20)	SPLP East	Solid	1312	
500-107391-4	2746-01B-B04 (0-8)	SPLP East	Solid	1312	
500-107391-5	2746-01-B88 (0-8)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Metals (Continued)

Leach Batch: 322357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-6	2746-01-B89 (0-8)	SPLP East	Solid	1312	
500-107391-7	2746-01-B90 (0-8)	SPLP East	Solid	1312	
500-107391-8	2746-01-B91 (0-8)	SPLP East	Solid	1312	
500-107391-9	2746-01-B95 (0-8)	SPLP East	Solid	1312	
500-107391-10	2746-01-B96 (0-8)	SPLP East	Solid	1312	
500-107391-11	2746-01-B97 (0-8)	SPLP East	Solid	1312	
LB 500-322357/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 322516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	TCLP	Solid	3010A	322353
500-107391-2	2746-01B-B03 (7-14)	TCLP	Solid	3010A	322353
500-107391-2 DU	2746-01B-B03 (7-14)	TCLP	Solid	3010A	322353
500-107391-2 MS	2746-01B-B03 (7-14)	TCLP	Solid	3010A	322353
500-107391-3	2746-01B-B03 (14-20)	TCLP	Solid	3010A	322353
500-107391-4	2746-01B-B04 (0-8)	TCLP	Solid	3010A	322353
500-107391-5	2746-01-B88 (0-8)	TCLP	Solid	3010A	322353
500-107391-6	2746-01-B89 (0-8)	TCLP	Solid	3010A	322353
500-107391-7	2746-01-B90 (0-8)	TCLP	Solid	3010A	322353
500-107391-8	2746-01-B91 (0-8)	TCLP	Solid	3010A	322353
500-107391-9	2746-01-B95 (0-8)	TCLP	Solid	3010A	322353
500-107391-10	2746-01-B96 (0-8)	TCLP	Solid	3010A	322353
500-107391-11	2746-01-B97 (0-8)	TCLP	Solid	3010A	322353
LB 500-322353/1-B	Method Blank	TCLP	Solid	3010A	322353
LCS 500-322516/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	SPLP East	Solid	3010A	322357
500-107391-1 DU	2746-01B-B03 (0-7)	SPLP East	Solid	3010A	322357
500-107391-1 MS	2746-01B-B03 (0-7)	SPLP East	Solid	3010A	322357
500-107391-2	2746-01B-B03 (7-14)	SPLP East	Solid	3010A	322357
500-107391-3	2746-01B-B03 (14-20)	SPLP East	Solid	3010A	322357
500-107391-4	2746-01B-B04 (0-8)	SPLP East	Solid	3010A	322357
500-107391-5	2746-01-B88 (0-8)	SPLP East	Solid	3010A	322357
500-107391-6	2746-01-B89 (0-8)	SPLP East	Solid	3010A	322357
500-107391-7	2746-01-B90 (0-8)	SPLP East	Solid	3010A	322357
500-107391-8	2746-01-B91 (0-8)	SPLP East	Solid	3010A	322357
500-107391-9	2746-01-B95 (0-8)	SPLP East	Solid	3010A	322357
500-107391-10	2746-01-B96 (0-8)	SPLP East	Solid	3010A	322357
500-107391-11	2746-01-B97 (0-8)	SPLP East	Solid	3010A	322357
LB 500-322357/1-B	Method Blank	SPLP East	Solid	3010A	322357
LCS 500-322525/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	TCLP	Solid	7470A	322353
500-107391-1 DU	2746-01B-B03 (0-7)	TCLP	Solid	7470A	322353
500-107391-1 MS	2746-01B-B03 (0-7)	TCLP	Solid	7470A	322353
500-107391-2	2746-01B-B03 (7-14)	TCLP	Solid	7470A	322353
500-107391-3	2746-01B-B03 (14-20)	TCLP	Solid	7470A	322353

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Metals (Continued)

Prep Batch: 322554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-4	2746-01B-B04 (0-8)	TCLP	Solid	7470A	322353
500-107391-5	2746-01-B88 (0-8)	TCLP	Solid	7470A	322353
500-107391-6	2746-01-B89 (0-8)	TCLP	Solid	7470A	322353
500-107391-7	2746-01-B90 (0-8)	TCLP	Solid	7470A	322353
500-107391-8	2746-01-B91 (0-8)	TCLP	Solid	7470A	322353
500-107391-9	2746-01-B95 (0-8)	TCLP	Solid	7470A	322353
500-107391-10	2746-01-B96 (0-8)	TCLP	Solid	7470A	322353
500-107391-11	2746-01-B97 (0-8)	TCLP	Solid	7470A	322353
LB 500-322353/1-C	Method Blank	TCLP	Solid	7470A	322353
LCS 500-322554/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322554/12-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 322606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	3050B	
500-107391-1 DU	2746-01B-B03 (0-7)	Total/NA	Solid	3050B	
500-107391-1 MS	2746-01B-B03 (0-7)	Total/NA	Solid	3050B	
500-107391-1 MSD	2746-01B-B03 (0-7)	Total/NA	Solid	3050B	
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	3050B	
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	3050B	
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	3050B	
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	3050B	
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	3050B	
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	3050B	
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	3050B	
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	3050B	
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	3050B	
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	3050B	
LCS 500-322606/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322606/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 322710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	SPLP East	Solid	6010B	322525
500-107391-1 DU	2746-01B-B03 (0-7)	SPLP East	Solid	6010B	322525
500-107391-1 MS	2746-01B-B03 (0-7)	SPLP East	Solid	6010B	322525
500-107391-2	2746-01B-B03 (7-14)	SPLP East	Solid	6010B	322525
500-107391-3	2746-01B-B03 (14-20)	SPLP East	Solid	6010B	322525
500-107391-4	2746-01B-B04 (0-8)	SPLP East	Solid	6010B	322525
500-107391-5	2746-01-B88 (0-8)	SPLP East	Solid	6010B	322525
500-107391-6	2746-01-B89 (0-8)	SPLP East	Solid	6010B	322525
500-107391-7	2746-01-B90 (0-8)	SPLP East	Solid	6010B	322525
500-107391-8	2746-01-B91 (0-8)	SPLP East	Solid	6010B	322525
500-107391-9	2746-01-B95 (0-8)	SPLP East	Solid	6010B	322525
500-107391-10	2746-01-B96 (0-8)	SPLP East	Solid	6010B	322525
500-107391-11	2746-01-B97 (0-8)	SPLP East	Solid	6010B	322525
LB 500-322357/1-B	Method Blank	SPLP East	Solid	6010B	322525
LCS 500-322525/2-A	Lab Control Sample	Total/NA	Solid	6010B	322525

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Metals (Continued)

Prep Batch: 322786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	
500-107391-1 DU	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	
500-107391-1 MS	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	
500-107391-1 MSD	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	7471B	
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	7471B	
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	7471B	
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	7471B	
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	7471B	
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	7471B	
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	7471B	
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	7471B	
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	7471B	
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	7471B	
LCS 500-322786/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-322786/12-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 322812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	TCLP	Solid	6010B	322516
500-107391-2	2746-01B-B03 (7-14)	TCLP	Solid	6010B	322516
500-107391-2 DU	2746-01B-B03 (7-14)	TCLP	Solid	6010B	322516
500-107391-2 MS	2746-01B-B03 (7-14)	TCLP	Solid	6010B	322516
500-107391-3	2746-01B-B03 (14-20)	TCLP	Solid	6010B	322516
500-107391-4	2746-01B-B04 (0-8)	TCLP	Solid	6010B	322516
500-107391-5	2746-01-B88 (0-8)	TCLP	Solid	6010B	322516
500-107391-6	2746-01-B89 (0-8)	TCLP	Solid	6010B	322516
500-107391-7	2746-01-B90 (0-8)	TCLP	Solid	6010B	322516
500-107391-8	2746-01-B91 (0-8)	TCLP	Solid	6010B	322516
500-107391-9	2746-01-B95 (0-8)	TCLP	Solid	6010B	322516
500-107391-10	2746-01-B96 (0-8)	TCLP	Solid	6010B	322516
500-107391-11	2746-01-B97 (0-8)	TCLP	Solid	6010B	322516
LB 500-322353/1-B	Method Blank	TCLP	Solid	6010B	322516
LCS 500-322516/2-A	Lab Control Sample	Total/NA	Solid	6010B	322516

Analysis Batch: 322857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	TCLP	Solid	6020A	322516
500-107391-2	2746-01B-B03 (7-14)	TCLP	Solid	6020A	322516
500-107391-2 DU	2746-01B-B03 (7-14)	TCLP	Solid	6020A	322516
500-107391-2 MS	2746-01B-B03 (7-14)	TCLP	Solid	6020A	322516
500-107391-3	2746-01B-B03 (14-20)	TCLP	Solid	6020A	322516
500-107391-4	2746-01B-B04 (0-8)	TCLP	Solid	6020A	322516
500-107391-5	2746-01-B88 (0-8)	TCLP	Solid	6020A	322516
500-107391-6	2746-01-B89 (0-8)	TCLP	Solid	6020A	322516
500-107391-7	2746-01-B90 (0-8)	TCLP	Solid	6020A	322516
500-107391-8	2746-01-B91 (0-8)	TCLP	Solid	6020A	322516
500-107391-9	2746-01-B95 (0-8)	TCLP	Solid	6020A	322516
500-107391-10	2746-01-B96 (0-8)	TCLP	Solid	6020A	322516
500-107391-11	2746-01-B97 (0-8)	TCLP	Solid	6020A	322516
LB 500-322353/1-B	Method Blank	TCLP	Solid	6020A	322516

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Metals (Continued)

Analysis Batch: 322857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322516/2-A	Lab Control Sample	Total/NA	Solid	6020A	322516

Analysis Batch: 322866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	TCLP	Solid	7470A	322554
500-107391-1 DU	2746-01B-B03 (0-7)	TCLP	Solid	7470A	322554
500-107391-1 MS	2746-01B-B03 (0-7)	TCLP	Solid	7470A	322554
500-107391-2	2746-01B-B03 (7-14)	TCLP	Solid	7470A	322554
500-107391-3	2746-01B-B03 (14-20)	TCLP	Solid	7470A	322554
500-107391-4	2746-01B-B04 (0-8)	TCLP	Solid	7470A	322554
500-107391-5	2746-01-B88 (0-8)	TCLP	Solid	7470A	322554
500-107391-6	2746-01-B89 (0-8)	TCLP	Solid	7470A	322554
500-107391-7	2746-01-B90 (0-8)	TCLP	Solid	7470A	322554
500-107391-8	2746-01-B91 (0-8)	TCLP	Solid	7470A	322554
500-107391-9	2746-01-B95 (0-8)	TCLP	Solid	7470A	322554
500-107391-10	2746-01-B96 (0-8)	TCLP	Solid	7470A	322554
500-107391-11	2746-01-B97 (0-8)	TCLP	Solid	7470A	322554
LB 500-322353/1-C	Method Blank	TCLP	Solid	7470A	322554
LCS 500-322554/13-A	Lab Control Sample	Total/NA	Solid	7470A	322554
MB 500-322554/12-A	Method Blank	Total/NA	Solid	7470A	322554

Analysis Batch: 322907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	322786
500-107391-1 DU	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	322786
500-107391-1 MS	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	322786
500-107391-1 MSD	2746-01B-B03 (0-7)	Total/NA	Solid	7471B	322786
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	7471B	322786
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	7471B	322786
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	7471B	322786
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	7471B	322786
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	7471B	322786
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	7471B	322786
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	7471B	322786
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	7471B	322786
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	7471B	322786
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	7471B	322786
LCS 500-322786/13-A	Lab Control Sample	Total/NA	Solid	7471B	322786
MB 500-322786/12-A	Method Blank	Total/NA	Solid	7471B	322786

Analysis Batch: 323046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1 DU	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1 DU	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1 MS	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1 MS	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1 MSD	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-1 MSD	2746-01B-B03 (0-7)	Total/NA	Solid	6010B	322606
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	6010B	322606

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Metals (Continued)

Analysis Batch: 323046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	6010B	322606
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	6010B	322606
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	6010B	322606
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	6010B	322606
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	6010B	322606
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	6010B	322606
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	6010B	322606
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	6010B	322606
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	6010B	322606
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	6010B	322606
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	6010B	322606
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	6010B	322606
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	6010B	322606
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	6010B	322606
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	6010B	322606
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	6010B	322606
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	6010B	322606
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	6010B	322606
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	6010B	322606
LCS 500-322606/2-A	Lab Control Sample	Total/NA	Solid	6010B	322606
MB 500-322606/1-A	Method Blank	Total/NA	Solid	6010B	322606

General Chemistry

Analysis Batch: 322306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	Moisture	
500-107391-1 DU	2746-01B-B03 (0-7)	Total/NA	Solid	Moisture	
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	Moisture	
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	Moisture	
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	Moisture	
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	Moisture	
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	Moisture	
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	Moisture	
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	Moisture	
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	Moisture	
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	Moisture	
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	Moisture	

Analysis Batch: 322568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-1	2746-01B-B03 (0-7)	Total/NA	Solid	9045D	
500-107391-2	2746-01B-B03 (7-14)	Total/NA	Solid	9045D	
500-107391-3	2746-01B-B03 (14-20)	Total/NA	Solid	9045D	
500-107391-4	2746-01B-B04 (0-8)	Total/NA	Solid	9045D	
500-107391-5	2746-01-B88 (0-8)	Total/NA	Solid	9045D	
500-107391-6	2746-01-B89 (0-8)	Total/NA	Solid	9045D	
500-107391-7	2746-01-B90 (0-8)	Total/NA	Solid	9045D	
500-107391-8	2746-01-B91 (0-8)	Total/NA	Solid	9045D	
500-107391-9	2746-01-B95 (0-8)	Total/NA	Solid	9045D	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

General Chemistry (Continued)

Analysis Batch: 322568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107391-10	2746-01-B96 (0-8)	Total/NA	Solid	9045D	
500-107391-11	2746-01-B97 (0-8)	Total/NA	Solid	9045D	

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Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-122)	(75-120)	(70-134)	(75-122)
500-107391-1	2746-01B-B03 (0-7)	92	93	89	105
500-107391-2	2746-01B-B03 (7-14)	94	95	88	106
500-107391-3	2746-01B-B03 (14-20)	91	96	87	103
500-107391-4	2746-01B-B04 (0-8)	93	98	90	105
500-107391-5	2746-01-B88 (0-8)	94	93	86	106
500-107391-6	2746-01-B89 (0-8)	91	93	91	108
500-107391-7	2746-01-B90 (0-8)	93	96	89	106
500-107391-8	2746-01-B91 (0-8)	94	96	87	107
500-107391-9	2746-01-B95 (0-8)	93	96	94	104
500-107391-10	2746-01-B96 (0-8)	92	99	90	106
500-107391-11	2746-01-B97 (0-8)	91	97	92	108
LCS 500-322973/4	Lab Control Sample	98	88	77	106
LCS 500-322973/5	Lab Control Sample Dup	96	88	79	107
MB 500-322973/6	Method Blank	95	90	80	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
		(25-110)	(31-110)	(25-115)	(25-119)	(35-137)	(36-134)
500-107391-1	2746-01B-B03 (0-7)	75	80	67	64	59	96
500-107391-2	2746-01B-B03 (7-14)	63	62	40	58	29 X	70
500-107391-3	2746-01B-B03 (14-20)	66	66	60	63	36	76
500-107391-4	2746-01B-B04 (0-8)	57	63	54	61	82	173 X
500-107391-5	2746-01-B88 (0-8)	68	58	62	66	73	182 X
500-107391-6	2746-01-B89 (0-8)	64	66	60	65	50	168 X
500-107391-7	2746-01-B90 (0-8)	64	65	59	63	42	105
500-107391-8	2746-01-B91 (0-8)	52	54	47	52	52	104
500-107391-9	2746-01-B95 (0-8)	63	64	58	60	39	112
500-107391-10	2746-01-B96 (0-8)	60	59	58	59	36	103
500-107391-11	2746-01-B97 (0-8)	70	63	69	73	19 X	123
LCS 500-322382/2-A	Lab Control Sample	47	46	48	47	57	59
MB 500-322382/1-A	Method Blank	71	68	61	66	55	83

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322973/6

Matrix: Solid

Analysis Batch: 322973

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 11:33	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 11:33	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 11:33	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 11:33	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 11:33	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 11:33	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 11:33	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 11:33	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 11:33	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 11:33	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 11:33	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 11:33	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 11:33	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 11:33	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 11:33	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 11:33	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 11:33	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 11:33	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 11:33	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 11:33	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 11:33	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 11:33	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 11:33	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		02/16/16 11:33	1
Dibromofluoromethane	90		75 - 120		02/16/16 11:33	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		02/16/16 11:33	1
Toluene-d8 (Surr)	102		75 - 122		02/16/16 11:33	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322973/4

Matrix: Solid

Analysis Batch: 322973

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0586		mg/Kg		117	50 - 133
Benzene	0.0500	0.0557		mg/Kg		111	70 - 120
Bromodichloromethane	0.0500	0.0469		mg/Kg		94	69 - 120
Bromoform	0.0500	0.0433		mg/Kg		87	51 - 127
Bromomethane	0.0500	0.0394		mg/Kg		79	69 - 120
2-Butanone (MEK)	0.0500	0.0554		mg/Kg		111	50 - 148
Carbon disulfide	0.0500	0.0498		mg/Kg		100	58 - 120
Carbon tetrachloride	0.0500	0.0403		mg/Kg		81	51 - 124
Chlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0551		mg/Kg		110	49 - 125
Chloroform	0.0500	0.0485		mg/Kg		97	70 - 120
Chloromethane	0.0500	0.0548		mg/Kg		110	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120
Dibromochloromethane	0.0500	0.0460		mg/Kg		92	69 - 126
1,1-Dichloroethane	0.0500	0.0496		mg/Kg		99	70 - 120
1,2-Dichloroethane	0.0500	0.0413		mg/Kg		83	70 - 128
1,1-Dichloroethene	0.0500	0.0459		mg/Kg		92	67 - 120
1,2-Dichloropropane	0.0500	0.0517		mg/Kg		103	70 - 120
Ethylbenzene	0.0500	0.0527		mg/Kg		105	70 - 120
2-Hexanone	0.0500	0.0550		mg/Kg		110	50 - 150
Methylene Chloride	0.0500	0.0522		mg/Kg		104	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0574		mg/Kg		115	50 - 150
Methyl tert-butyl ether	0.0500	0.0475		mg/Kg		95	70 - 120
Styrene	0.0500	0.0529		mg/Kg		106	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0523		mg/Kg		105	70 - 133
Tetrachloroethene	0.0500	0.0471		mg/Kg		94	70 - 120
Toluene	0.0500	0.0531		mg/Kg		106	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
1,1,1-Trichloroethane	0.0500	0.0423		mg/Kg		85	70 - 120
1,1,2-Trichloroethane	0.0500	0.0506		mg/Kg		101	70 - 120
Trichloroethene	0.0500	0.0492		mg/Kg		98	70 - 120
Vinyl acetate	0.0500	0.0535		mg/Kg		107	60 - 150
Vinyl chloride	0.0500	0.0490		mg/Kg		98	69 - 120
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 122
Dibromofluoromethane	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Lab Sample ID: LCSD 500-322973/5

Matrix: Solid

Analysis Batch: 322973

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0558		mg/Kg		112	50 - 133	5	30
Benzene	0.0500	0.0590		mg/Kg		118	70 - 120	6	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-322973/5
Matrix: Solid
Analysis Batch: 322973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0502		mg/Kg		100	69 - 120	7	30
Bromoform	0.0500	0.0478		mg/Kg		96	51 - 127	10	30
Bromomethane	0.0500	0.0485		mg/Kg		97	69 - 120	21	30
2-Butanone (MEK)	0.0500	0.0588		mg/Kg		118	50 - 148	6	30
Carbon disulfide	0.0500	0.0524		mg/Kg		105	58 - 120	5	30
Carbon tetrachloride	0.0500	0.0426		mg/Kg		85	51 - 124	6	30
Chlorobenzene	0.0500	0.0538		mg/Kg		108	70 - 120	8	30
Chloroethane	0.0500	0.0672	*	mg/Kg		134	49 - 125	20	30
Chloroform	0.0500	0.0511		mg/Kg		102	70 - 120	5	30
Chloromethane	0.0500	0.0587		mg/Kg		117	63 - 126	7	30
cis-1,2-Dichloroethene	0.0500	0.0523		mg/Kg		105	70 - 120	5	30
Dibromochloromethane	0.0500	0.0513		mg/Kg		103	69 - 126	11	30
1,1-Dichloroethane	0.0500	0.0530		mg/Kg		106	70 - 120	7	30
1,2-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 128	5	30
1,1-Dichloroethene	0.0500	0.0483		mg/Kg		97	67 - 120	5	30
1,2-Dichloropropane	0.0500	0.0562		mg/Kg		112	70 - 120	8	30
Ethylbenzene	0.0500	0.0558		mg/Kg		112	70 - 120	6	30
2-Hexanone	0.0500	0.0637		mg/Kg		127	50 - 150	15	30
Methylene Chloride	0.0500	0.0552		mg/Kg		110	70 - 120	6	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0638		mg/Kg		128	50 - 150	11	30
Methyl tert-butyl ether	0.0500	0.0516		mg/Kg		103	70 - 120	8	30
Styrene	0.0500	0.0560		mg/Kg		112	70 - 120	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0597		mg/Kg		119	70 - 133	13	30
Tetrachloroethene	0.0500	0.0489		mg/Kg		98	70 - 120	4	30
Toluene	0.0500	0.0568		mg/Kg		114	70 - 120	7	30
trans-1,2-Dichloroethene	0.0500	0.0511		mg/Kg		102	70 - 120	7	30
1,1,1-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 120	6	30
1,1,2-Trichloroethane	0.0500	0.0552		mg/Kg		110	70 - 120	9	30
Trichloroethene	0.0500	0.0528		mg/Kg		106	70 - 120	7	30
Vinyl acetate	0.0500	0.0567		mg/Kg		113	60 - 150	6	30
Vinyl chloride	0.0500	0.0525		mg/Kg		105	69 - 120	7	30
Xylenes, Total	0.100	0.107		mg/Kg		107	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	96		70 - 122
Dibromofluoromethane	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322382/1-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/10/16 17:42	02/17/16 18:08	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322382/1-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322382

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/10/16 17:42	02/17/16 18:08	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322382/1-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322382

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/10/16 17:42	02/17/16 18:08	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/10/16 17:42	02/17/16 18:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	71		25 - 110	02/10/16 17:42	02/17/16 18:08	1
Phenol-d5	68		31 - 110	02/10/16 17:42	02/17/16 18:08	1
Nitrobenzene-d5	61		25 - 115	02/10/16 17:42	02/17/16 18:08	1
2-Fluorobiphenyl	66		25 - 119	02/10/16 17:42	02/17/16 18:08	1
2,4,6-Tribromophenol	55		35 - 137	02/10/16 17:42	02/17/16 18:08	1
Terphenyl-d14	83		36 - 134	02/10/16 17:42	02/17/16 18:08	1

Lab Sample ID: LCS 500-322382/2-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	0.867		mg/Kg		65	41 - 110
Bis(2-chloroethyl)ether	1.33	0.849		mg/Kg		64	32 - 110
1,3-Dichlorobenzene	1.33	0.816		mg/Kg		61	44 - 110
1,4-Dichlorobenzene	1.33	0.837		mg/Kg		63	45 - 110
1,2-Dichlorobenzene	1.33	0.851		mg/Kg		64	48 - 110
2-Methylphenol	1.33	0.875		mg/Kg		66	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.662		mg/Kg		50	30 - 115
N-Nitrosodi-n-propylamine	1.33	0.856		mg/Kg		64	24 - 123
Hexachloroethane	1.33	0.860		mg/Kg		65	44 - 110
2-Chlorophenol	1.33	0.897		mg/Kg		67	47 - 114
Nitrobenzene	1.33	0.895		mg/Kg		67	35 - 113
Bis(2-chloroethoxy)methane	1.33	0.857		mg/Kg		64	42 - 110
1,2,4-Trichlorobenzene	1.33	0.891		mg/Kg		67	49 - 110
Isophorone	1.33	0.810		mg/Kg		61	35 - 110
2,4-Dimethylphenol	1.33	0.854		mg/Kg		64	49 - 110
Hexachlorobutadiene	1.33	0.925		mg/Kg		69	47 - 114
Naphthalene	1.33	0.841		mg/Kg		63	48 - 110
2,4-Dichlorophenol	1.33	0.892		mg/Kg		67	53 - 113
4-Chloroaniline	1.33	1.04		mg/Kg		78	16 - 118
2,4,6-Trichlorophenol	1.33	0.909		mg/Kg		68	44 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322382/2-A

Matrix: Solid

Analysis Batch: 323158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1.33	0.939		mg/Kg		70	41 - 120
Hexachlorocyclopentadiene	1.33	0.475	J	mg/Kg		36	10 - 110
2-Methylnaphthalene	1.33	0.851		mg/Kg		64	48 - 110
2-Nitroaniline	1.33	0.875		mg/Kg		66	42 - 122
2-Chloronaphthalene	1.33	0.903		mg/Kg		68	52 - 114
4-Chloro-3-methylphenol	1.33	0.892		mg/Kg		67	52 - 111
2,6-Dinitrotoluene	1.33	0.987		mg/Kg		74	54 - 117
2-Nitrophenol	1.33	1.02		mg/Kg		77	48 - 113
3-Nitroaniline	1.33	0.902		mg/Kg		68	36 - 131
Dimethyl phthalate	1.33	0.923		mg/Kg		69	56 - 113
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		16	10 - 110
Acenaphthylene	1.33	0.899		mg/Kg		67	49 - 110
2,4-Dinitrotoluene	1.33	1.08		mg/Kg		81	53 - 122
Acenaphthene	1.33	0.816		mg/Kg		61	46 - 110
Dibenzofuran	1.33	0.900		mg/Kg		68	51 - 119
4-Nitrophenol	2.67	1.67		mg/Kg		63	10 - 157
Fluorene	1.33	0.877		mg/Kg		66	47 - 121
4-Nitroaniline	1.33	1.12		mg/Kg		84	28 - 157
4-Bromophenyl phenyl ether	1.33	0.911		mg/Kg		68	55 - 113
Hexachlorobenzene	1.33	0.947		mg/Kg		71	54 - 114
Diethyl phthalate	1.33	0.940		mg/Kg		71	50 - 128
4-Chlorophenyl phenyl ether	1.33	0.943		mg/Kg		71	53 - 117
Pentachlorophenol	2.67	0.920		mg/Kg		34	10 - 124
N-Nitrosodiphenylamine	1.33	0.881		mg/Kg		66	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.755		mg/Kg		28	10 - 110
Phenanthrene	1.33	0.853		mg/Kg		64	48 - 121
Anthracene	1.33	0.865		mg/Kg		65	48 - 118
Carbazole	1.33	1.03		mg/Kg		77	26 - 188
Di-n-butyl phthalate	1.33	0.913		mg/Kg		68	50 - 128
Fluoranthene	1.33	0.909		mg/Kg		68	48 - 128
Pyrene	1.33	0.935		mg/Kg		70	46 - 114
Butyl benzyl phthalate	1.33	0.948		mg/Kg		71	49 - 121
Benzo[a]anthracene	1.33	0.872		mg/Kg		65	49 - 121
Chrysene	1.33	0.883		mg/Kg		66	45 - 118
3,3'-Dichlorobenzidine	1.33	0.896		mg/Kg		67	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	0.945		mg/Kg		71	47 - 133
Di-n-octyl phthalate	1.33	0.870		mg/Kg		65	46 - 138
Benzo[b]fluoranthene	1.33	1.05		mg/Kg		79	54 - 122
Benzo[k]fluoranthene	1.33	1.11		mg/Kg		83	44 - 137
Benzo[a]pyrene	1.33	0.947		mg/Kg		71	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	0.675		mg/Kg		51	49 - 132
Dibenz(a,h)anthracene	1.33	0.612	*	mg/Kg		46	48 - 134
Benzo[g,h,i]perylene	1.33	0.484	*	mg/Kg		36	52 - 125
3 & 4 Methylphenol	1.33	0.888		mg/Kg		67	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	47		25 - 110
Phenol-d5	46		31 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322382/2-A
Matrix: Solid
Analysis Batch: 323158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322382

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	48		25 - 115
2-Fluorobiphenyl	47		25 - 119
2,4,6-Tribromophenol	57		35 - 137
Terphenyl-d14	59		36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-322516/2-A
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.513		mg/L		103	80 - 120
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Boron	1.00	0.962		mg/L		96	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.520		mg/L		104	80 - 120
Nickel	0.500	0.504		mg/L		101	80 - 120
Selenium	0.100	0.0941		mg/L		94	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Zinc	0.500	0.502		mg/L		100	80 - 120

Lab Sample ID: LCS 500-322525/2-A
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.104		mg/L		104	80 - 120
Manganese	0.500	0.529		mg/L		106	80 - 120

Lab Sample ID: MB 500-322606/1-A
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Barium	<1.0		1.0	0.18	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Boron	<5.0		5.0	0.70	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Calcium	<20		20	6.4	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Chromium	1.40		1.0	0.17	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/12/16 09:34	02/16/16 08:34	1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-322606/1-A
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<1.0		1.0	0.22	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Iron	33.6		20	7.7	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Lead	<0.50		0.50	0.25	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Magnesium	<10		10	4.1	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Nickel	0.456	J	1.0	0.27	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Potassium	<50		50	8.2	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Silver	<0.50		0.50	0.12	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Sodium	<100		100	13	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/12/16 09:34	02/16/16 08:34	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/12/16 09:34	02/16/16 08:34	1

Lab Sample ID: LCS 500-322606/2-A
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.9		mg/Kg		96	80 - 120
Arsenic	10.0	9.99		mg/Kg		100	80 - 120
Barium	200	191		mg/Kg		96	80 - 120
Beryllium	5.00	4.84		mg/Kg		97	80 - 120
Boron	100	87.9		mg/Kg		88	80 - 120
Cadmium	5.00	4.61		mg/Kg		92	80 - 120
Calcium	1000	948		mg/Kg		95	80 - 120
Chromium	20.0	20.9		mg/Kg		105	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Iron	100	118		mg/Kg		118	80 - 120
Lead	10.0	9.14		mg/Kg		91	80 - 120
Magnesium	1000	938		mg/Kg		94	80 - 120
Manganese	50.0	48.6		mg/Kg		97	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Potassium	1000	955		mg/Kg		96	80 - 120
Selenium	10.0	8.67		mg/Kg		87	80 - 120
Silver	5.00	4.68		mg/Kg		94	80 - 120
Sodium	1000	960		mg/Kg		96	80 - 120
Thallium	10.0	9.16		mg/Kg		92	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	47.0		mg/Kg		94	80 - 120

Lab Sample ID: 500-107391-1 MS
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.97	F1 F2	22.8	3.74	F1	mg/Kg	☼	16	75 - 125
Arsenic	7.1	F1	4.56	9.66	F1	mg/Kg	☼	55	75 - 125

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107391-1 MS

Matrix: Solid

Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)

Prep Type: Total/NA

Prep Batch: 322606

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Barium	37	F2	91.2	110		mg/Kg	☼	79		75 - 125
Beryllium	0.52	F2	2.28	2.45		mg/Kg	☼	85		75 - 125
Boron	12		45.6	46.8		mg/Kg	☼	76		75 - 125
Cadmium	<0.097		2.28	1.98		mg/Kg	☼	87		75 - 125
Chromium	15	F2 B F1	9.12	21.9	F1	mg/Kg	☼	73		75 - 125
Cobalt	12		22.8	33.3		mg/Kg	☼	94		75 - 125
Copper	24	F1 F2	11.4	31.9	F1	mg/Kg	☼	68		75 - 125
Iron	17000	B	45.6	15400	4	mg/Kg	☼	-2921		75 - 125
Lead	17	F1	4.56	15.1	F1	mg/Kg	☼	-33		75 - 125
Magnesium	25000		456	34000	4	mg/Kg	☼	1884		75 - 125
Manganese	360	F2	22.8	623	4	mg/Kg	☼	1133		75 - 125
Nickel	31	B	22.8	50.0		mg/Kg	☼	82		75 - 125
Potassium	2200		456	3440	4	mg/Kg	☼	260		75 - 125
Selenium	<0.49	F1	4.56	3.66		mg/Kg	☼	80		75 - 125
Silver	<0.24		2.28	2.02		mg/Kg	☼	89		75 - 125
Sodium	700		456	1040		mg/Kg	☼	75		75 - 125
Thallium	<0.49		4.56	4.25		mg/Kg	☼	93		75 - 125
Vanadium	18	F2	22.8	35.6		mg/Kg	☼	76		75 - 125
Zinc	48		22.8	70.7		mg/Kg	☼	98		75 - 125

Lab Sample ID: 500-107391-1 MS

Matrix: Solid

Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)

Prep Type: Total/NA

Prep Batch: 322606

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Calcium	60000	F2	456	78800	4	mg/Kg	☼	4162		75 - 125

Lab Sample ID: 500-107391-1 MSD

Matrix: Solid

Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)

Prep Type: Total/NA

Prep Batch: 322606

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
Antimony	<0.97	F1 F2	27.5	4.93	F1 F2	mg/Kg	☼	18		75 - 125	27	20
Arsenic	7.1	F1	5.51	10.4	F1	mg/Kg	☼	59		75 - 125	7	20
Barium	37	F2	110	136	F2	mg/Kg	☼	90		75 - 125	21	20
Beryllium	0.52	F2	2.75	3.04	F2	mg/Kg	☼	92		75 - 125	22	20
Boron	12		55.1	56.7		mg/Kg	☼	81		75 - 125	19	20
Cadmium	<0.097		2.75	2.32		mg/Kg	☼	84		75 - 125	16	20
Chromium	15	F2 B F1	11.0	27.7	F2	mg/Kg	☼	113		75 - 125	23	20
Cobalt	12		27.5	39.3		mg/Kg	☼	100		75 - 125	16	20
Copper	24	F1 F2	13.8	49.3	F1 F2	mg/Kg	☼	183		75 - 125	43	20
Iron	17000	B	55.1	17600	4	mg/Kg	☼	1610		75 - 125	13	20
Lead	17	F1	5.51	17.6	F1	mg/Kg	☼	17		75 - 125	15	20
Magnesium	25000		551	28300	4	mg/Kg	☼	519		75 - 125	18	20
Manganese	360	F2	27.5	399	4 F2	mg/Kg	☼	125		75 - 125	44	20
Nickel	31	B	27.5	58.4		mg/Kg	☼	99		75 - 125	16	20
Potassium	2200		551	4200	4	mg/Kg	☼	353		75 - 125	20	20
Selenium	<0.49	F1	5.51	3.65	F1	mg/Kg	☼	66		75 - 125	0	20
Silver	<0.24		2.75	2.40		mg/Kg	☼	87		75 - 125	17	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107391-1 MSD
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322606

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Sodium	700		551	1230		mg/Kg	☼	95	75 - 125	16	20	
Thallium	<0.49		5.51	4.55		mg/Kg	☼	83	75 - 125	7	20	
Vanadium	18	F2	27.5	44.2	F2	mg/Kg	☼	94	75 - 125	21	20	
Zinc	48		27.5	70.7		mg/Kg	☼	81	75 - 125	0	20	

Lab Sample ID: 500-107391-1 MSD
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322606

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Calcium	60000	F2	551	62200	4 F2	mg/Kg	☼	435	75 - 125	24	20	

Lab Sample ID: 500-107391-1 DU
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322606

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<0.97	F1 F2	<1.1		mg/Kg	☼	NC	20
Arsenic	7.1	F1	7.33		mg/Kg	☼	3	20
Barium	37	F2	40.3		mg/Kg	☼	8	20
Beryllium	0.52	F2	0.608		mg/Kg	☼	16	20
Boron	12		14.3		mg/Kg	☼	17	20
Cadmium	<0.097		<0.11		mg/Kg	☼	NC	20
Chromium	15	F2 B F1	15.5		mg/Kg	☼	1	20
Cobalt	12		12.2		mg/Kg	☼	3	20
Copper	24	F1 F2	26.7		mg/Kg	☼	10	20
Iron	17000	B	16500		mg/Kg	☼	1	20
Lead	17	F1	12.9	F3	mg/Kg	☼	25	20
Magnesium	25000		29900		mg/Kg	☼	16	20
Manganese	360	F2	426		mg/Kg	☼	16	20
Nickel	31	B	32.0		mg/Kg	☼	3	20
Potassium	2200		2520		mg/Kg	☼	12	20
Selenium	<0.49	F1	0.346	J	mg/Kg	☼	NC	20
Silver	<0.24		<0.28		mg/Kg	☼	NC	20
Sodium	700		695		mg/Kg	☼	1	20
Thallium	<0.49		<0.56		mg/Kg	☼	NC	20
Vanadium	18	F2	17.3		mg/Kg	☼	6	20
Zinc	48		47.9		mg/Kg	☼	0.7	20

Lab Sample ID: 500-107391-1 DU
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322606

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Calcium	60000	F2	66300		mg/Kg	☼	10	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322353/1-B
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322516

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/11/16 15:20	02/14/16 01:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/11/16 15:20	02/14/16 01:49	1
Boron	0.0549	J	0.50	0.050	mg/L		02/11/16 15:20	02/14/16 01:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/16 15:20	02/14/16 01:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Cobalt	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Iron	<0.40		0.40	0.20	mg/L		02/11/16 15:20	02/14/16 01:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:20	02/14/16 01:49	1
Manganese	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/16 15:20	02/14/16 01:49	1
Silver	<0.025		0.025	0.010	mg/L		02/11/16 15:20	02/14/16 01:49	1
Zinc	0.319	J	0.50	0.020	mg/L		02/11/16 15:20	02/14/16 01:49	1

Lab Sample ID: 500-107391-2 MS
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: 2746-01B-B03 (7-14)
Prep Type: TCLP
Prep Batch: 322516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.67		0.500	1.25		mg/L		115	50 - 150
Beryllium	<0.0040		0.0500	0.0529		mg/L		106	50 - 150
Boron	0.65	B	1.00	1.29		mg/L		64	50 - 150
Cadmium	<0.0050		0.0500	0.0514		mg/L		103	50 - 150
Chromium	<0.025		0.200	0.205		mg/L		102	50 - 150
Cobalt	0.011	J	0.500	0.518		mg/L		101	50 - 150
Iron	<0.40		1.00	1.05		mg/L		105	50 - 150
Lead	<0.0075		0.100	0.105		mg/L		105	50 - 150
Manganese	2.0		0.500	2.84	4	mg/L		160	50 - 150
Nickel	0.029		0.500	0.533		mg/L		101	50 - 150
Selenium	<0.050		0.100	0.110		mg/L		110	50 - 150
Silver	<0.025		0.0500	0.0561		mg/L		112	50 - 150
Zinc	0.10	J B	0.500	0.549		mg/L		89	50 - 150

Lab Sample ID: 500-107391-2 DU
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: 2746-01B-B03 (7-14)
Prep Type: TCLP
Prep Batch: 322516

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.67		0.653		mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.65	B	0.629		mg/L		3	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.011	J	0.0110	J	mg/L		4	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.0		1.98		mg/L		3	20
Nickel	0.029		0.0282		mg/L		2	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107391-2 DU
Matrix: Solid
Analysis Batch: 322812

Client Sample ID: 2746-01B-B03 (7-14)
Prep Type: TCLP
Prep Batch: 322516

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.10	J B	0.103	J	mg/L		1	20

Lab Sample ID: LB 500-322357/1-B
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322525

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/11/16 15:29	02/13/16 04:17	1
Manganese	<0.025		0.025	0.010	mg/L		02/11/16 15:29	02/13/16 04:17	1

Lab Sample ID: 500-107391-1 MS
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: SPLP East
Prep Batch: 322525

Analyte	Sample	Sample	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Manganese	0.24		0.500	0.837		mg/L		120	50 - 150

Lab Sample ID: 500-107391-1 DU
Matrix: Solid
Analysis Batch: 322710

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: SPLP East
Prep Batch: 322525

Analyte	Sample	Sample	DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Manganese	0.24		0.231		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-322516/2-A
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322516

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.500	0.433		mg/L		87	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Lab Sample ID: LB 500-322353/1-B
Matrix: Solid
Analysis Batch: 322857

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322516

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/11/16 15:20	02/12/16 16:33	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/11/16 15:20	02/12/16 16:33	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107391-2 MS

Matrix: Solid
Analysis Batch: 322857

Client Sample ID: 2746-01B-B03 (7-14)

Prep Type: TCLP
Prep Batch: 322516

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060		0.500	0.431		mg/L		86	50 - 150
Thallium	<0.0020		0.100	0.111		mg/L		111	50 - 150

Lab Sample ID: 500-107391-2 DU

Matrix: Solid
Analysis Batch: 322857

Client Sample ID: 2746-01B-B03 (7-14)

Prep Type: TCLP
Prep Batch: 322516

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-322554/12-A

Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 322554

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:41	1

Lab Sample ID: LCS 500-322554/13-A

Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 322554

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: LB 500-322353/1-C

Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank

Prep Type: TCLP
Prep Batch: 322554

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/11/16 18:30	02/14/16 13:45	1

Lab Sample ID: 500-107391-1 MS

Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-01B-B03 (0-7)

Prep Type: TCLP
Prep Batch: 322554

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00105		mg/L		105	50 - 150

Lab Sample ID: 500-107391-1 DU

Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-01B-B03 (0-7)

Prep Type: TCLP
Prep Batch: 322554

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-322786/12-A
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/14/16 19:45	02/15/16 10:07	1

Lab Sample ID: LCS 500-322786/13-A
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.173		mg/Kg		104	80 - 120

Lab Sample ID: 500-107391-1 MS
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.025		0.0946	0.109		mg/Kg	☼	88	75 - 125

Lab Sample ID: 500-107391-1 MSD
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.025		0.0970	0.111		mg/Kg	☼	88	75 - 125	2	20

Lab Sample ID: 500-107391-1 DU
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01B-B03 (0-7)
Prep Type: Total/NA
Prep Batch: 322786

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.025		0.0208		mg/Kg	☼	19	20

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Date Collected: 02/08/16 11:00

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 04:37	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 02:10	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 16:45	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 19:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:16		
					(End)	02/11/16 23:23		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01B-B03 (0-7)

Lab Sample ID: 500-107391-1

Date Collected: 02/08/16 11:00

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 14:05	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/19/16 16:15	GES	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 03:44	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 07:12	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:11	MJD	TAL CHI

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 05:20	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 02:16	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 16:50	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/11/16 23:23 (End) 02/11/16 23:30	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01B-B03 (7-14)

Lab Sample ID: 500-107391-2

Date Collected: 02/08/16 11:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 14:31	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 16:27	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:08	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 07:41	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:19	MJD	TAL CHI

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 05:27	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 02:59	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:14	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:04	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:30		
					(End)	02/11/16 23:37		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01B-B03 (14-20)

Lab Sample ID: 500-107391-3

Date Collected: 02/08/16 11:22

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 14:56	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 16:56	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:13	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 07:45	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:25	MJD	TAL CHI

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Date Collected: 02/08/16 11:40

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 05:34	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:06	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:18	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:06	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:37		
					(End)	02/11/16 23:44		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01B-B04 (0-8)

Lab Sample ID: 500-107391-4

Date Collected: 02/08/16 11:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 15:21	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 19:53	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:18	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 07:49	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:27	MJD	TAL CHI

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 05:41	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:13	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:22	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:08	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:44		
					(End)	02/11/16 23:51		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 15:47	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 20:22	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:31	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B88 (0-8)

Lab Sample ID: 500-107391-5

Date Collected: 02/08/16 11:53

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 07:53	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:29	MJD	TAL CHI

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Date Collected: 02/08/16 12:26

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 05:47	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:20	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:26	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:51		
					(End)	02/11/16 23:58		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01-B89 (0-8)

Lab Sample ID: 500-107391-6

Date Collected: 02/08/16 12:26

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 16:12	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 20:52	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:36	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 07:57	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:31	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Date Collected: 02/08/16 12:45

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 05:54	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:26	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:31	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/11/16 23:58		
					(End)	02/12/16 00:05		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01-B90 (0-8)

Lab Sample ID: 500-107391-7

Date Collected: 02/08/16 12:45

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 16:38	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 17:26	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:41	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 08:02	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:33	MJD	TAL CHI

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 06:01	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:33	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:35	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/12/16 00:05 (End) 02/12/16 00:12	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01-B91 (0-8)

Lab Sample ID: 500-107391-8

Date Collected: 02/08/16 13:40

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 17:04	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 17:55	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:46	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 09:00	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:35	MJD	TAL CHI

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 06:08	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:40	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:39	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:20	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322568	(Start) 02/12/16 00:12 (End) 02/12/16 00:19	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01-B95 (0-8)

Lab Sample ID: 500-107391-9

Date Collected: 02/08/16 13:50

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 17:29	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 18:25	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:51	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 09:04	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:38	MJD	TAL CHI

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Date Collected: 02/08/16 14:15

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 06:30	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:47	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:43	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:23	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568	(Start) 02/12/16 00:19 (End) 02/12/16 00:26	HMW	TAL CHI
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B96 (0-8)

Lab Sample ID: 500-107391-10

Date Collected: 02/08/16 14:15

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 17:54	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 18:54	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 04:56	PJ1	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 09:08	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:40	MJD	TAL CHI

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322357	02/10/16 14:15	RA	TAL CHI
SPLP East	Prep	3010A			322525	02/11/16 15:29	JNH	TAL CHI
SPLP East	Analysis	6010B		1	322710	02/13/16 06:37	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6010B		1	322812	02/14/16 03:53	PJ1	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	3010A			322516	02/11/16 15:20	JNH	TAL CHI
TCLP	Analysis	6020A		1	322857	02/12/16 17:47	PFK	TAL CHI
TCLP	Leach	1311			322353	02/10/16 13:15	RA	TAL CHI
TCLP	Prep	7470A			322554	02/11/16 18:30	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 14:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322568		HMW	TAL CHI
					(Start)	02/12/16 00:26		
					(End)	02/12/16 00:33		
Total/NA	Analysis	Moisture		1	322306	02/10/16 10:14	LWN	TAL CHI

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322492	02/09/16 17:47	BDW	TAL CHI
Total/NA	Analysis	8260B		1	322973	02/16/16 18:20	BDW	TAL CHI
Total/NA	Prep	3541			322382	02/10/16 17:42	DEA	TAL CHI
Total/NA	Analysis	8270D		1	323708	02/20/16 19:24	AJD	TAL CHI
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 05:01	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Client Sample ID: 2746-01-B97 (0-8)

Lab Sample ID: 500-107391-11

Date Collected: 02/08/16 14:27

Matrix: Solid

Date Received: 02/09/16 13:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322606	02/12/16 09:34	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 09:12	PJ1	TAL CHI
Total/NA	Prep	7471B			322786	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:42	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107391-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708



500-107391 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107391

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative		Parameter														
E+E		1009341.0005.01																		
Project Name		Lab Project #																		
I-90																				
Project Location/State		Lab PM																		
Cook County, IL		D. Wright																		
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total TAL	Metals	TC/PP/SLP	Metals	PH/Percent	solids	Preservative Key					
			Date	Time											1. HCL, Cool to 4°	2. H2SO4, Cool to 4°	3. HNO3, Cool to 4°	4. NaOH, Cool to 4°	5. NaOH/Zn, Cool to 4°	6. NaHSO4
1		2746-01B-B03(CO-7)	2/8/16	1100	2	S	X	X	X	X	X	X	X							
2		2746-01B-B03(1-14)	2/8/16	1115	2	S	X	X	X	X	X	X	X							
3		2746-01B-B03(14-20)	2/8/16	1122	2	S	X	X	X	X	X	X	X							
4		2746-01B-B04(CO-8)	2/8/16	1140	2	S	X	X	X	X	X	X	X							

Turnaround Time Required (Business Days) 7 Days 1 Day 2 Days 5 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month).

Relinquished By <i>[Signature]</i>	Company E+E	Date 2/8/16	Time 1600	Received By <i>[Signature]</i>	Company TA	Date 2/8/16	Time 1600
Relinquished By <i>[Signature]</i>	Company JA	Date 2/9/16	Time 905 AM	Received By <i>[Signature]</i>	Company TA-CPI	Date 2/9/16	Time 1330
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments

Lab Comments:

Elmhurst



503325

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

347-456-0908

Report To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To _____ (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107391

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative												Preservative Key		
E+E		1009341.0005.01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter														
I-90		50011818																
Project Location/State		Lab PM																
Cook County, IL		Dick Wright				VOC		SVOC		Total TAL Metals		TCLP/SPLP Metals		PH/Percent Solids				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix											Comments	
			Date	Time														
5		2746-01-B88(0-8)	2/8/16	1153	2	S	X	X	X	X	X	X	X	X	X	X		
6		2746-01-B89(0-8)	2/8/16	1226	2	S	X	X	X	X	X	X	X	X	X	X		
7		2746-01-B90(0-8)	2/8/16	1245	2	S	X	X	X	X	X	X	X	X	X	X		
8		2746-01-B91(0-8)	2/8/16	1340	2	S	X	X	X	X	X	X	X	X	X	X		
9		2746-01-B95(0-8)	2/8	1350	2	S	X	X	X	X	X	X	X	X	X	X		
10		2746-01-B96(0-8)	2/8	1415	2	S	X	X	X	X	X	X	X	X	X	X		
11		2746-01-B97(0-8)	2/8	1427	2	S	X	X	X	X	X	X	X	X	X	X		

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months

(A fee may be assessed if samples are retained)

Requested Due Date _____

Relinquished By <i>[Signature]</i>	Company E+E	Date 2/8/16	Time 1600	Received By <i>[Signature]</i>	Company JA	Date 2/8/16	Time 1600
Relinquished By <i>[Signature]</i>	Company JA	Date 2/9/16	Time 9:03AM	Received By <i>[Signature]</i>	Company JA-CP	Date 2/9/16	Time 1330
Relinquished By <i>[Signature]</i>	Company	Date	Time	Received By <i>[Signature]</i>	Company	Date	Time

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:



Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107391-1

Login Number: 107391

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107399-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/22/2016 2:22:14 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Job ID: 500-107399-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107399-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2016 4:16 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8° C, 3.3° C and 3.6° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch 500-323152 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 323039 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 323064 recovered outside control limits for the following analyte: 2-Butanone.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01-B36 (0-8) (500-107399-1), 2746-01-B35 (0-8) (500-107399-2), 2746-01-B34 (0-8) (500-107399-3), 2746-01-B33 (0-8) (500-107399-4), 2746-01-B32 (0-8) (500-107399-5), 2746-01-B31 (0-8) (500-107399-6), 2746-01-B30 (0-8) (500-107399-7), 2746-01-B29 (0-7) (500-107399-8), 2746-01-B29 (7-14) (500-107399-9), 2746-01-B29 (14-20) (500-107399-10), 2746-01-B28 (0-8) (500-107399-11), 2746-01-B27 (0-8) (500-107399-12), 2746-01-B26 (0-8) (500-107399-13), 2746-01-B26 (0-8)D (500-107399-14), 2746-01-B24 (0-5) (500-107399-15), 2746-01-B25 (7-14) (500-107399-17), 2746-01-B25 (14-20) (500-107399-18), 2746-01A-B02 (0-8) (500-107399-19), 2746-01A-B01 (0-8) (500-107399-20), 2746-01-B98 (0-8) (500-107399-21), 2746-01-B99 (0-8) (500-107399-22), 2746-01-B100 (0-8) (500-107399-23), 2746-01-B100 (0-8)D (500-107399-24), 2746-01-B101 (0-8) (500-107399-25), 2746-01-B102 (0-8) (500-107399-26), 2746-01-B103 (0-8) (500-107399-27), 2746-01-B104 (0-8) (500-107399-28), 2746-01-B105 (0-8) (500-107399-29), 2746-01-B108 (0-8) (500-107399-30), 2746-01-B107 (0-8) (500-107399-31), 2746-01-B106 (0-8) (500-107399-32), (500-107399-E-1-B MS), (500-107399-E-1-C MSD), (500-107399-E-21-B MS) and (500-107399-E-21-C MS). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: 2-Fluorophenol and Phenol-d5 Surrogate recoveries for the following sample were outside the upper control limit: 2746-01-B25 (0-7) (500-107399-16). This sample did not contain any acid target analytes associated to these surrogates; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-322600 and analytical batch 500-323046 contained Chromium above the reporting limit (RL). Associated sample 2746-01-B36 (0-8) (500-107399-1), 2746-01-B35 (0-8) (500-107399-2), 2746-01-B34 (0-8) (500-107399-3), 2746-01-B33 (0-8) (500-107399-4), 2746-01-B32 (0-8) (500-107399-5), 2746-01-B31 (0-8) (500-107399-6), 2746-01-B30 (0-8) (500-107399-7), 2746-01-B29 (0-7) (500-107399-8), 2746-01-B29 (7-14) (500-107399-9), 2746-01-B29 (14-20) (500-107399-10), 2746-01-B28 (0-8) (500-107399-11), 2746-01-B27 (0-8) (500-107399-12), 2746-01-B26 (0-8) (500-107399-13), 2746-01-B26 (0-8)D (500-107399-14), 2746-01-B24 (0-5) (500-107399-15) and 2746-01-B25 (0-7) (500-107399-16) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6010B: The following sample was diluted to bring the concentration of target analytes within the calibration range (too negative):

Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Job ID: 500-107399-1 (Continued)

Laboratory: TestAmerica Chicago (Continued)

2746-01-B35 (0-8) (500-107399-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0096	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.010	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J F1	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.2	F1	0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.74	F1 F2	0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	14	F1 F2	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000	F2	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	21	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.6	F1 F2	0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24	F2 F1	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14	F1 F2	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	F2	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	300	F2 B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33	F1 F2 B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900	F2	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J F1 F2	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	410	F1	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23	F1 F2	0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	56	F1	1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.70	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.51		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.014	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	6.78		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	29		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	98		0.47	0.085	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.90		0.19	0.040	mg/Kg	1	☼	6010B	Total/NA
Boron	6.6		2.3	0.33	mg/Kg	1	☼	6010B	Total/NA
Calcium	5600		9.3	3.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	0.47	0.080	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	9.3	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.23	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6900		4.7	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	430	B	0.47	0.092	mg/Kg	1	☼	6010B	Total/NA
Nickel	45	B	0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		23	3.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.26	J	0.47	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		47	6.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		0.93	0.30	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B35 (0-8) (Continued)

Lab Sample ID: 500-107399-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.58	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.81	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.70		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.013	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.034	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.020	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.028	J	0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.016	J	0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	9.2		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.071	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000		12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	B	0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.96	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.080		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.52	B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.027		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.52		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		0.62	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	130		0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.25	0.054	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B33 (0-8) (Continued)

Lab Sample ID: 500-107399-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	4.3		3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.15		0.12	0.036	mg/Kg	1	☼	6010B	Total/NA
Calcium	4400		12	4.0	mg/Kg	1	☼	6010B	Total/NA
Chromium	24	B	0.62	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.31	0.070	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.62	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.8	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4800		6.2	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	230	B	0.62	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34	B	0.62	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		31	5.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.46	J	0.62	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		62	8.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.31	0.091	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.73	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.10	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.051		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.21		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	84		0.48	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.69		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Calcium	3100		9.5	3.1	mg/Kg	1	☼	6010B	Total/NA
Chromium	19	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.5		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	9.5	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3600		4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	240	B	0.48	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	22	B	0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	1200		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	950		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	30		0.24	0.069	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.95	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.66		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.010	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B32 (0-8) (Continued)

Lab Sample ID: 500-107399-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.43		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.037		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0068	J	0.041	0.0063	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0068	J	0.041	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.048		0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.018	J	0.041	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.12		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.15		0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.074		0.041	0.0055	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.34		0.041	0.0089	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.041	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.19		0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.039	J	0.041	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.16		0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.4		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.80		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	8.8		2.5	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	10000		10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	21000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	44		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6500		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	500	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	29	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		25	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	29		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.3	J B	2.0	0.050	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.4	B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.087		0.050	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.12		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.90		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.014	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0081	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0089	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.99		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	7.3		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.075	J	0.12	0.035	mg/Kg	1	☼	6010B	Total/NA
Calcium	9800		12	3.9	mg/Kg	1	☼	6010B	Total/NA
Chromium	25	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600		6.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	190	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.0	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.58		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.76		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.057		0.020	0.0039	mg/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	0.013		0.0050	0.0018	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.024	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.041		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.035	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.019	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.034	J	0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.013	J	0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.019	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	83		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.89		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (0-7) (Continued)

Lab Sample ID: 500-107399-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	5.7		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	9200		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	22	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	8500		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	240	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	1700		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	31		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.49	J B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.3	J B	2.0	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	8.23		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.018	J	0.041	0.0057	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.015	J	0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.015	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.6		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.51	0.092	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.75		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	56000		100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	20	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	280	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	35	B	0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	560		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (7-14) (Continued)

Lab Sample ID: 500-107399-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.23	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.031	J	0.041	0.0064	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.060		0.041	0.0076	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.050		0.041	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0077	J	0.041	0.0077	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.041	0.0082	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.041	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.2		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	54		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	15		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000		120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	21	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	330	B	0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	38	B	0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		60	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.92	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.4	J B	2.0	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.065	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B28 (0-8)

Lab Sample ID: 500-107399-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.016	0.0032	mg/Kg	1	☼	8260B	Total/NA
Arsenic	9.0		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	22		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B28 (0-8) (Continued)

Lab Sample ID: 500-107399-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.45		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	2.9		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	1500		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.6		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	120	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	910		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	660		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	44		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.16	J B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.6	J B	2.0	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.38	J B	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.014		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.020	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.30	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.027	J	0.050	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.77		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.032	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.028	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.018	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.027	J	0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.8		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	72		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.72		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.067	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	33000		11	3.5	mg/Kg	1	☼	6010B	Total/NA
Chromium	20	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	16		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B27 (0-8) (Continued)

Lab Sample ID: 500-107399-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	450	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34	B	0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.33		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.68		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0063	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.070		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.015	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.15		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.073		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.094		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.074		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.031	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.0		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	64		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	7.0		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000		11	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.53	0.092	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	300	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28	B	0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	27		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8) (Continued)

Lab Sample ID: 500-107399-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.61	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.50		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.013	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.44		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.046		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0080	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.095		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.090		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.045		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.064		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.097		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.037	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.050		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	69		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.62		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	7.4		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	23000		11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.2		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	230	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26	B	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.53	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	350		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.95	J B	2.0	0.050	mg/L	1		6010B	TCLP
Lead	0.0082		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.89		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.49	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.046	J	0.050	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.38		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)D (Continued)

Lab Sample ID: 500-107399-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.42		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0086	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0083	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0056	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.43		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	4.0		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	14000		12	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	14	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.2		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	8.2		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	12	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	9800		5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	120	B	0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	14	B	0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	800		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	820		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.2	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0097		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.050		0.050	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.51		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.027		0.0045	0.00094	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.014	J	0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0098	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.097		0.036	0.0066	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.064	J	0.18	0.043	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.15		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.5		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.40		0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.14	J	0.18	0.091	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.6		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (0-7) (Continued)

Lab Sample ID: 500-107399-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	1.3		0.036	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.57		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.61		0.036	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.77		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.32		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.46		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.040		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.13		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.7		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	81		0.52	0.096	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	7.1		2.6	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000		10	3.4	mg/Kg	1	☼	6010B	Total/NA
Chromium	15	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	40		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	490	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	28	B	0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		26	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	84		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.2	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.63	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.12		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.94		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0097	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	42	F1	0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	12	F1	2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	79000	B F2	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	F1 B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (7-14) (Continued)

Lab Sample ID: 500-107399-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	17		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	F2 B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	F2 B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	390	F2	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	28	F1	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400	F2	28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	47	F1	1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.63	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037	B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0077	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	38		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.46		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.037	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	88000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		58	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.58	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.64	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	2.0	B	2.0	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043	B	0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (14-20) (Continued)

Lab Sample ID: 500-107399-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	SPLP East
Manganese	0.24		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.019	0.010	mg/Kg	1	*	7471B	Total/NA
pH	8.57		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0072	J	0.039	0.0055	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.014	J	0.039	0.0079	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.0071	J	0.039	0.0053	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.012	J	0.039	0.011	mg/Kg	1	*	8270D	Total/NA
Benzo[b]fluoranthene	0.013	J	0.039	0.0085	mg/Kg	1	*	8270D	Total/NA
Arsenic	4.7		0.57	0.26	mg/Kg	1	*	6010B	Total/NA
Barium	56		0.57	0.10	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.57		0.23	0.049	mg/Kg	1	*	6010B	Total/NA
Boron	7.3		2.9	0.40	mg/Kg	1	*	6010B	Total/NA
Cadmium	0.052	J	0.11	0.033	mg/Kg	1	*	6010B	Total/NA
Calcium	15000	B	11	3.7	mg/Kg	1	*	6010B	Total/NA
Chromium	17	B	0.57	0.098	mg/Kg	1	*	6010B	Total/NA
Cobalt	10		0.29	0.065	mg/Kg	1	*	6010B	Total/NA
Copper	16		0.57	0.12	mg/Kg	1	*	6010B	Total/NA
Iron	15000	B	11	4.4	mg/Kg	1	*	6010B	Total/NA
Lead	14		0.29	0.14	mg/Kg	1	*	6010B	Total/NA
Magnesium	8100	B	5.7	2.3	mg/Kg	1	*	6010B	Total/NA
Manganese	230		0.57	0.11	mg/Kg	1	*	6010B	Total/NA
Nickel	27		0.57	0.15	mg/Kg	1	*	6010B	Total/NA
Potassium	1500		29	4.7	mg/Kg	1	*	6010B	Total/NA
Sodium	270		57	7.5	mg/Kg	1	*	6010B	Total/NA
Vanadium	22		0.29	0.083	mg/Kg	1	*	6010B	Total/NA
Zinc	48		1.1	0.36	mg/Kg	1	*	6010B	Total/NA
Barium	0.60	B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.6	J B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	0.23		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.17	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.017	0.0091	mg/Kg	1	*	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.018	J	0.039	0.0054	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.012	J	0.039	0.0072	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.010	J	0.039	0.0077	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.0052	J	0.039	0.0052	mg/Kg	1	*	8270D	Total/NA
Arsenic	8.2		0.57	0.27	mg/Kg	1	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B01 (0-8) (Continued)

Lab Sample ID: 500-107399-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	72		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.55		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	6.0		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.14		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	27000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	710		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	38		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.43	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J B	0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.3	J F1 B	2.0	0.050	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.021	J B	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
Mercury	0.032		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.52		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.034	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.11		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.094		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.054		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16	F1	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.088		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.068		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.027	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.064		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.077		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B98 (0-8) (Continued)

Lab Sample ID: 500-107399-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	16000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.30	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	47		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Boron	2.1	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.23	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.025	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Boron	1.2	J F1 B	2.0	0.050	mg/L	1		6010B	SPLP East
Manganese	0.59	F1	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.90		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.040		0.040	0.0062	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.13		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.083		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.030	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0058	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.3		0.61	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.24	0.053	mg/Kg	1	☼	6010B	Total/NA
Boron	16		3.1	0.43	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.61	0.11	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.31	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.31	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.61	0.17	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		31	5.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	460		61	8.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.31	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	71		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B99 (0-8) (Continued)

Lab Sample ID: 500-107399-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.81		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.9	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.023	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.42	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.04		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.030	J	0.040	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0073	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.074		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.018	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.060		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.037	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.7		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.60	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.50		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	14		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Calcium	75000	B	120	39	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.60	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.30	0.068	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.60	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	6.0	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	280		0.60	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.60	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		60	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.30	0.088	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.87		0.50	0.050	mg/L	1		6010B	TCLP
Boron	2.6	B	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.69		0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.020	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.28	J B	0.50	0.020	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	SPLP East
Manganese	0.042		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8) (Continued)

Lab Sample ID: 500-107399-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.20		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0060	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.024	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0075	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.013	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.070		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	42		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	500		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.83		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.2	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.023	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.53	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	7.93		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.033	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.11		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0058	J	0.038	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0063	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B101 (0-8) (Continued)

Lab Sample ID: 500-107399-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.084		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.037	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.099		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.027	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.052		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.051		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.018	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.045		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	19		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	270		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.29	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.3	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.23	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.19	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.036		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.79		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.025	J	0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.073		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0072	J	0.039	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.074		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.055		0.039	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.038	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B102 (0-8) (Continued)

Lab Sample ID: 500-107399-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.54		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	580		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.75		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.7	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.37	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0080		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.023	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.25	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.0090		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.80		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.011	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.076		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.015	J	0.038	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.091		0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.25		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.076		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.10		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.094		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B103 (0-8) (Continued)

Lab Sample ID: 500-107399-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	390		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.5	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.010		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.065		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.011		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.046		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0071	J	0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	20		0.52	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.37		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	8.9		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28		0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	89000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	9.5	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	560		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.69		0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.26	J	0.52	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	86		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.23	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B104 (0-8) (Continued)

Lab Sample ID: 500-107399-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1.7	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.070		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.027	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.20	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.026		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	7.60		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0091	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.039		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.068		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.023	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.18		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.072		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.059		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.034	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.053		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.3		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.42		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	120000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	12	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	53000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	260		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	340		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.64		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.9	B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.20	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.16	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.017	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	7.98		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0093	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0076	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.042		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0097	J	0.036	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.045		0.036	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.38		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.048		0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.19		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.036	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.050		0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.3		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	82000	B	100	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	12	B	0.52	0.090	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.8		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	40000	B	5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	270		0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Sodium	980		52	6.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.42	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	34		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	2.0	B	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.42		0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0091		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.35	J B	0.50	0.020	mg/L	1		6010B	TCLP
Boron	1.1	J B	2.0	0.050	mg/L	1		6010B	SPLP East
Lead	0.053		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.84		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.016	0.0085	mg/Kg	1	☼	7471B	Total/NA
pH	8.92		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.068		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.011	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.093		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B107 (0-8) (Continued)

Lab Sample ID: 500-107399-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.011	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.036	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.29		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.031	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.16		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.052		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	37		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	85000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.45	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	420		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.56	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	42		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	1.8	B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.012		0.0050	0.0020	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Lead	0.0092		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.025	J	0.050	0.020	mg/L	1		6010B	TCLP
Zinc	0.48	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.048		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.034	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.089		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.096		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0085	J	0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.028	J	0.038	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.12		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B106 (0-8) (Continued)

Lab Sample ID: 500-107399-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.020	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.059		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.4		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.62		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	82		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	2.0	B	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Boron	0.93	J B	2.0	0.050	mg/L	1		6010B	SPLP East
Manganese	0.40		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.90		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107399-1	2746-01-B36 (0-8)	Solid	02/09/16 08:50	02/09/16 16:16
500-107399-2	2746-01-B35 (0-8)	Solid	02/09/16 09:10	02/09/16 16:16
500-107399-3	2746-01-B34 (0-8)	Solid	02/09/16 09:30	02/09/16 16:16
500-107399-4	2746-01-B33 (0-8)	Solid	02/09/16 09:50	02/09/16 16:16
500-107399-5	2746-01-B32 (0-8)	Solid	02/09/16 10:15	02/09/16 16:16
500-107399-6	2746-01-B31 (0-8)	Solid	02/09/16 10:30	02/09/16 16:16
500-107399-7	2746-01-B30 (0-8)	Solid	02/09/16 10:50	02/09/16 16:16
500-107399-8	2746-01-B29 (0-7)	Solid	02/09/16 11:10	02/09/16 16:16
500-107399-9	2746-01-B29 (7-14)	Solid	02/09/16 11:15	02/09/16 16:16
500-107399-10	2746-01-B29 (14-20)	Solid	02/09/16 11:20	02/09/16 16:16
500-107399-11	2746-01-B28 (0-8)	Solid	02/09/16 11:40	02/09/16 16:16
500-107399-12	2746-01-B27 (0-8)	Solid	02/09/16 12:05	02/09/16 16:16
500-107399-13	2746-01-B26 (0-8)	Solid	02/09/16 12:25	02/09/16 16:16
500-107399-14	2746-01-B26 (0-8)D	Solid	02/09/16 12:25	02/09/16 16:16
500-107399-15	2746-01-B24 (0-5)	Solid	02/09/16 13:50	02/09/16 16:16
500-107399-16	2746-01-B25 (0-7)	Solid	02/09/16 14:20	02/09/16 16:16
500-107399-17	2746-01-B25 (7-14)	Solid	02/09/16 14:25	02/09/16 16:16
500-107399-18	2746-01-B25 (14-20)	Solid	02/09/16 14:40	02/09/16 16:16
500-107399-19	2746-01A-B02 (0-8)	Solid	02/09/16 12:55	02/09/16 16:16
500-107399-20	2746-01A-B01 (0-8)	Solid	02/09/16 13:15	02/09/16 16:16
500-107399-21	2746-01-B98 (0-8)	Solid	02/09/16 09:14	02/09/16 16:16
500-107399-22	2746-01-B99 (0-8)	Solid	02/09/16 09:30	02/09/16 16:16
500-107399-23	2746-01-B100 (0-8)	Solid	02/09/16 10:15	02/09/16 16:16
500-107399-24	2746-01-B100 (0-8)D	Solid	02/09/16 10:15	02/09/16 16:16
500-107399-25	2746-01-B101 (0-8)	Solid	02/09/16 11:15	02/09/16 16:16
500-107399-26	2746-01-B102 (0-8)	Solid	02/09/16 11:32	02/09/16 16:16
500-107399-27	2746-01-B103 (0-8)	Solid	02/09/16 11:55	02/09/16 16:16
500-107399-28	2746-01-B104 (0-8)	Solid	02/09/16 12:01	02/09/16 16:16
500-107399-29	2746-01-B105 (0-8)	Solid	02/09/16 13:00	02/09/16 16:16
500-107399-30	2746-01-B108 (0-8)	Solid	02/09/16 13:12	02/09/16 16:16
500-107399-31	2746-01-B107 (0-8)	Solid	02/09/16 13:22	02/09/16 16:16
500-107399-32	2746-01-B106 (0-8)	Solid	02/09/16 13:30	02/09/16 16:16

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Date Collected: 02/09/16 08:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Chloroethane	<0.0048		0.0048	0.0020	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,3-Dichloropropene, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Vinyl acetate	<0.0048 *		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/10/16 17:25	02/16/16 14:19	1
Dibromofluoromethane	102		75 - 120	02/10/16 17:25	02/16/16 14:19	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/10/16 17:25	02/16/16 14:19	1
Toluene-d8 (Surr)	110		75 - 122	02/10/16 17:25	02/16/16 14:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19	F1	0.19	0.086	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Bis(2-chloroethyl)ether	<0.19	F1	0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Date Collected: 02/09/16 08:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4-Chloroaniline	<0.78	F1	0.78	0.18	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Hexachlorocyclopentadiene	<0.78	F1	0.78	0.22	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
3-Nitroaniline	<0.38	F2	0.38	0.12	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,4-Dinitrophenol	<0.78	F1	0.78	0.68	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
4,6-Dinitro-2-methylphenol	<0.78	F1	0.78	0.31	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Phenanthrene	0.0096	J	0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Fluoranthene	0.010	J	0.038	0.0072	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Pyrene	0.011	J F1	0.038	0.0077	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.074	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Date Collected: 02/09/16 08:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.071	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Benzo[b]fluoranthene	<0.038	F1	0.038	0.0083	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Benzo[k]fluoranthene	<0.038	F1	0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:18	02/18/16 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	121	X	25 - 110	02/11/16 07:18	02/18/16 22:26	1
Phenol-d5	104		31 - 110	02/11/16 07:18	02/18/16 22:26	1
Nitrobenzene-d5	98		25 - 115	02/11/16 07:18	02/18/16 22:26	1
2-Fluorobiphenyl	89		25 - 119	02/11/16 07:18	02/18/16 22:26	1
2,4,6-Tribromophenol	92		35 - 137	02/11/16 07:18	02/18/16 22:26	1
Terphenyl-d14	106		36 - 134	02/11/16 07:18	02/18/16 22:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1 F2	1.2	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Arsenic	5.2	F1	0.58	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Barium	39		0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Beryllium	0.74	F1 F2	0.23	0.050	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Boron	14	F1 F2	2.9	0.40	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Cadmium	<0.12	F1 F2	0.12	0.033	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Calcium	58000	F2	120	37	mg/Kg	☼	02/12/16 09:13	02/16/16 09:16	10
Chromium	21	B	0.58	0.099	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Cobalt	9.6	F1 F2	0.29	0.065	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Copper	24	F2 F1	0.58	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Iron	19000	B	12	4.4	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Lead	14	F1 F2	0.29	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Magnesium	25000	F2	5.8	2.3	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Manganese	300	F2 B	0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Nickel	33	F1 F2 B	0.58	0.16	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Potassium	2900	F2	29	4.7	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Selenium	0.57	J F1 F2	0.58	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Silver	<0.29	F1 F2	0.29	0.067	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Sodium	410	F1	58	7.6	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Vanadium	23	F1 F2	0.29	0.084	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1
Zinc	56	F1	1.2	0.36	mg/Kg	☼	02/12/16 09:13	02/16/16 05:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:14	1
Boron	0.70	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Date Collected: 02/09/16 08:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Manganese	0.51		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:14	1
Zinc	0.22	J B	0.50	0.020	mg/L	-	02/13/16 13:11	02/15/16 12:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.014	J	0.025	0.010	mg/L	-	02/13/16 10:28	02/17/16 07:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 13:11	02/15/16 14:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 13:11	02/15/16 14:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 15:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.78		0.200	0.200	SU	-		02/12/16 13:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Vinyl acetate	<0.0040 *		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/10/16 17:25	02/16/16 14:44	1
Dibromofluoromethane	106		75 - 120	02/10/16 17:25	02/16/16 14:44	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 14:44	1
Toluene-d8 (Surr)	110		75 - 122	02/10/16 17:25	02/16/16 14:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:18	02/18/16 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112	X	25 - 110	02/11/16 07:18	02/18/16 22:52	1
Phenol-d5	98		31 - 110	02/11/16 07:18	02/18/16 22:52	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:18	02/18/16 22:52	1
2-Fluorobiphenyl	84		25 - 119	02/11/16 07:18	02/18/16 22:52	1
2,4,6-Tribromophenol	83		35 - 137	02/11/16 07:18	02/18/16 22:52	1
Terphenyl-d14	102		36 - 134	02/11/16 07:18	02/18/16 22:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.93		0.93	0.19	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Arsenic	29		0.47	0.22	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Barium	98		0.47	0.085	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Beryllium	0.90		0.19	0.040	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Boron	6.6		2.3	0.33	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Cadmium	<0.93		0.93	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 09:37	10
Calcium	5600		9.3	3.0	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Chromium	23 B		0.47	0.080	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Cobalt	16		0.23	0.053	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Copper	24		0.47	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Iron	22000 B		9.3	3.6	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Lead	17		0.23	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Magnesium	6900		4.7	1.9	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Manganese	430 B		0.47	0.092	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Nickel	45 B		0.47	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Potassium	2000		23	3.8	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Selenium	0.26 J		0.47	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Silver	<0.23		0.23	0.055	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Sodium	180		47	6.2	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Vanadium	27		0.23	0.068	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1
Zinc	67		0.93	0.30	mg/Kg	☼	02/12/16 09:13	02/16/16 05:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58 B		0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:21	1
Boron	0.81 J B		2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 12:21	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:21	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:21	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 12:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 12:21	1
Manganese	0.32		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:21	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 12:21	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:21	1
Zinc	0.12	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 12:21	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.52		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 07:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:10	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0094	mg/Kg	☼	02/14/16 19:45	02/15/16 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			02/12/16 13:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Tetrachloroethene	<0.0045		0.0045	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/10/16 17:25	02/16/16 15:09	1
Dibromofluoromethane	103		75 - 120	02/10/16 17:25	02/16/16 15:09	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/10/16 17:25	02/16/16 15:09	1
Toluene-d8 (Surr)	112		75 - 122	02/10/16 17:25	02/16/16 15:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Phenanthrene	0.013	J	0.040	0.0056	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Fluoranthene	0.034	J	0.040	0.0074	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Pyrene	0.027	J	0.040	0.0079	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Benzo[a]anthracene	0.016	J	0.040	0.0054	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.020	J	0.040	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Benzo[b]fluoranthene	0.028	J	0.040	0.0086	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Benzo[a]pyrene	0.016	J	0.040	0.0077	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/18/16 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	112	X	25 - 110	02/11/16 07:18	02/18/16 23:18	1
Phenol-d5	98		31 - 110	02/11/16 07:18	02/18/16 23:18	1
Nitrobenzene-d5	91		25 - 115	02/11/16 07:18	02/18/16 23:18	1
2-Fluorobiphenyl	83		25 - 119	02/11/16 07:18	02/18/16 23:18	1
2,4,6-Tribromophenol	76		35 - 137	02/11/16 07:18	02/18/16 23:18	1
Terphenyl-d14	101		36 - 134	02/11/16 07:18	02/18/16 23:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Arsenic	7.7		0.58	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Barium	72		0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Beryllium	0.75		0.23	0.051	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Boron	9.2		2.9	0.41	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Cadmium	0.071	J	0.12	0.034	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Calcium	26000		12	3.8	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Chromium	19	B	0.58	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Cobalt	12		0.29	0.066	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Copper	23		0.58	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Iron	20000	B	12	4.5	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Lead	51		0.29	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Magnesium	16000		5.8	2.4	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Manganese	360	B	0.58	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Nickel	27	B	0.58	0.16	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Potassium	2100		29	4.8	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Selenium	0.42	J	0.58	0.29	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Sodium	160		58	7.7	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Vanadium	26		0.29	0.085	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1
Zinc	70		1.2	0.37	mg/Kg	☼	02/12/16 09:13	02/16/16 05:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:27	1
Boron	0.96	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 12:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:27	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 12:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 12:27	1
Manganese	0.080		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 12:27	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:27	1
Zinc	0.52	B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 12:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			02/12/16 13:46	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Date Collected: 02/09/16 09:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0040	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Bromodichloromethane	<0.0051		0.0051	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Chloroethane	<0.0051		0.0051	0.0022	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Chloroform	<0.0051		0.0051	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,1-Dichloroethane	<0.0051		0.0051	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,3-Dichloropropane, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Vinyl acetate	<0.0051	*	0.0051	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/10/16 17:25	02/16/16 15:34	1
Dibromofluoromethane	103		75 - 120	02/10/16 17:25	02/16/16 15:34	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	02/10/16 17:25	02/16/16 15:34	1
Toluene-d8 (Surr)	106		75 - 122	02/10/16 17:25	02/16/16 15:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Date Collected: 02/09/16 09:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.050	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2-Methylphenol	<0.21		0.21	0.067	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
N-Nitrosodi-n-propylamine	<0.084		0.084	0.051	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Isophorone	<0.21		0.21	0.047	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Naphthalene	<0.041		0.041	0.0064	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,4-Dichlorophenol	<0.41		0.41	0.099	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4-Chloroaniline	<0.84		0.84	0.19	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,4,5-Trichlorophenol	<0.41		0.41	0.095	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Hexachlorocyclopentadiene	<0.84		0.84	0.24	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,6-Dinitrotoluene	<0.21		0.21	0.082	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,4-Dinitrophenol	<0.84		0.84	0.73	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Acenaphthene	<0.041		0.041	0.0075	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Dibenzofuran	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4-Nitrophenol	<0.84		0.84	0.39	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Hexachlorobenzene	<0.084		0.084	0.0096	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Pentachlorophenol	<0.84		0.84	0.67	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
4,6-Dinitro-2-methylphenol	<0.84		0.84	0.33	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Phenanthrene	<0.041		0.041	0.0058	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Fluoranthene	<0.041		0.041	0.0077	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Date Collected: 02/09/16 09:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Di-n-octyl phthalate	<0.21		0.21	0.068	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Benzo[b]fluoranthene	<0.041		0.041	0.0090	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/11/16 07:18	02/18/16 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	123	X	25 - 110	02/11/16 07:18	02/18/16 23:44	1
Phenol-d5	109		31 - 110	02/11/16 07:18	02/18/16 23:44	1
Nitrobenzene-d5	102		25 - 115	02/11/16 07:18	02/18/16 23:44	1
2-Fluorobiphenyl	90		25 - 119	02/11/16 07:18	02/18/16 23:44	1
2,4,6-Tribromophenol	92		35 - 137	02/11/16 07:18	02/18/16 23:44	1
Terphenyl-d14	109		36 - 134	02/11/16 07:18	02/18/16 23:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Arsenic	5.5		0.62	0.29	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Barium	130		0.62	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Beryllium	1.1		0.25	0.054	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Boron	4.3		3.1	0.43	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Cadmium	0.15		0.12	0.036	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Calcium	4400		12	4.0	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Chromium	24 B		0.62	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Cobalt	15		0.31	0.070	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Copper	24		0.62	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Iron	22000 B		12	4.8	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Lead	24		0.31	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Magnesium	4800		6.2	2.5	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Manganese	230 B		0.62	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Nickel	34 B		0.62	0.17	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Potassium	1500		31	5.1	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Selenium	0.46 J		0.62	0.31	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Sodium	340		62	8.2	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Vanadium	30		0.31	0.091	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1
Zinc	63		1.2	0.39	mg/Kg	☼	02/12/16 09:13	02/16/16 05:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57 B		0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:34	1
Boron	0.73 J B		2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Date Collected: 02/09/16 09:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 12:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:34	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:34	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 12:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 12:34	1
Manganese	0.31		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:34	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 12:34	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:34	1
Zinc	0.10	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 12:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 08:09	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.021	0.011	mg/Kg	☼	02/14/16 19:45	02/15/16 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			02/12/16 13:50	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Vinyl acetate	<0.0042 *		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122	02/10/16 17:25	02/16/16 15:59	1
Dibromofluoromethane	106		75 - 120	02/10/16 17:25	02/16/16 15:59	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134	02/10/16 17:25	02/16/16 15:59	1
Toluene-d8 (Surr)	111		75 - 122	02/10/16 17:25	02/16/16 15:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	114	X	25 - 110	02/11/16 07:18	02/19/16 00:10	1
Phenol-d5	100		31 - 110	02/11/16 07:18	02/19/16 00:10	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:18	02/19/16 00:10	1
2-Fluorobiphenyl	84		25 - 119	02/11/16 07:18	02/19/16 00:10	1
2,4,6-Tribromophenol	81		35 - 137	02/11/16 07:18	02/19/16 00:10	1
Terphenyl-d14	103		36 - 134	02/11/16 07:18	02/19/16 00:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Arsenic	5.2		0.48	0.22	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Barium	84		0.48	0.087	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Beryllium	0.69		0.19	0.041	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Boron	4.0		2.4	0.33	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Cadmium	<0.095		0.095	0.028	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Calcium	3100		9.5	3.1	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Chromium	19 B		0.48	0.082	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Cobalt	9.5		0.24	0.054	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Copper	15		0.48	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Iron	18000 B		9.5	3.7	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Lead	13		0.24	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Magnesium	3600		4.8	1.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Manganese	240 B		0.48	0.094	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Nickel	22 B		0.48	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Potassium	1200		24	3.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Selenium	0.36 J		0.48	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Sodium	950		48	6.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Vanadium	30		0.24	0.069	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1
Zinc	54		0.95	0.30	mg/Kg	☼	02/12/16 09:13	02/16/16 06:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53 B		0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:41	1
Boron	0.95 J B		2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 12:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:41	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:41	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 12:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 12:41	1
Manganese	0.66		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:41	1
Nickel	0.010	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 12:41	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:41	1
Zinc	0.15	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 12:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.43		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 08:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.200	0.200	SU			02/12/16 13:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Date Collected: 02/09/16 10:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 77.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Benzene	<0.0047		0.0047	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Bromodichloromethane	<0.0047		0.0047	0.00080	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Bromoform	<0.0047		0.0047	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Bromomethane	<0.0047		0.0047	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
2-Butanone (MEK)	<0.0047		0.0047	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Carbon disulfide	<0.0047		0.0047	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Carbon tetrachloride	<0.0047		0.0047	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Chlorobenzene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Chloroethane	<0.0047		0.0047	0.0020	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Chloroform	<0.0047		0.0047	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Chloromethane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
cis-1,2-Dichloroethene	<0.0047		0.0047	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
cis-1,3-Dichloropropene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Dibromochloromethane	<0.0047		0.0047	0.00054	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,1-Dichloroethane	<0.0047		0.0047	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,2-Dichloroethane	<0.0047		0.0047	0.00070	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,1-Dichloroethene	<0.0047		0.0047	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,2-Dichloropropane	<0.0047		0.0047	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,3-Dichloropropane, Total	<0.0047		0.0047	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Ethylbenzene	<0.0047		0.0047	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Methylene Chloride	<0.0047		0.0047	0.0036	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
4-Methyl-2-pentanone (MIBK)	<0.0047		0.0047	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Methyl tert-butyl ether	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Styrene	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,1,2,2-Tetrachloroethane	<0.0047		0.0047	0.00075	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Tetrachloroethene	<0.0047		0.0047	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Toluene	<0.0047		0.0047	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
trans-1,2-Dichloroethene	<0.0047		0.0047	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
trans-1,3-Dichloropropene	<0.0047		0.0047	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,1,1-Trichloroethane	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
1,1,2-Trichloroethane	<0.0047		0.0047	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Trichloroethene	<0.0047		0.0047	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Vinyl acetate	<0.0047 *		0.0047	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Vinyl chloride	<0.0047		0.0047	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1
Xylenes, Total	<0.0094		0.0094	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122	02/10/16 17:25	02/16/16 16:24	1
Dibromofluoromethane	105		75 - 120	02/10/16 17:25	02/16/16 16:24	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 16:24	1
Toluene-d8 (Surr)	109		75 - 122	02/10/16 17:25	02/16/16 16:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Date Collected: 02/09/16 10:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Hexachlorobutadiene	<0.21		0.21	0.064	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Naphthalene	0.0068	J	0.041	0.0063	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,4-Dichlorophenol	<0.41		0.41	0.097	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2-Methylnaphthalene	<0.041		0.041	0.0075	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Acenaphthylene	0.0068	J	0.041	0.0054	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Phenanthrene	0.048		0.041	0.0057	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Anthracene	0.018	J	0.041	0.0069	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Fluoranthene	0.12		0.041	0.0076	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Pyrene	0.15		0.041	0.0082	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Benzo[a]anthracene	0.074		0.041	0.0055	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Date Collected: 02/09/16 10:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.13		0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Benzo[b]fluoranthene	0.34		0.041	0.0089	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Benzo[k]fluoranthene	0.17		0.041	0.012	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Benzo[a]pyrene	0.19		0.041	0.0079	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Indeno[1,2,3-cd]pyrene	0.14		0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Dibenz(a,h)anthracene	0.039	J	0.041	0.0079	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
Benzo[g,h,i]perylene	0.16		0.041	0.013	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	02/11/16 07:18	02/21/16 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	108		25 - 110	02/11/16 07:18	02/21/16 17:53	1
Phenol-d5	103		31 - 110	02/11/16 07:18	02/21/16 17:53	1
Nitrobenzene-d5	88		25 - 115	02/11/16 07:18	02/21/16 17:53	1
2-Fluorobiphenyl	81		25 - 119	02/11/16 07:18	02/21/16 17:53	1
2,4,6-Tribromophenol	90		35 - 137	02/11/16 07:18	02/21/16 17:53	1
Terphenyl-d14	147	X	36 - 134	02/11/16 07:18	02/21/16 17:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Arsenic	8.4		0.51	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Barium	100		0.51	0.093	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Beryllium	0.80		0.20	0.044	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Boron	8.8		2.5	0.36	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Cadmium	0.22		0.10	0.029	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Calcium	10000		10	3.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Chromium	21	B	0.51	0.088	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Cobalt	15		0.25	0.058	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Copper	23		0.51	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Iron	21000	B	10	3.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Lead	44		0.25	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Magnesium	6500		5.1	2.1	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Manganese	500	B	0.51	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Nickel	29	B	0.51	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Potassium	2400		25	4.2	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Selenium	0.67		0.51	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Sodium	1000		51	6.7	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Vanadium	29		0.25	0.074	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1
Zinc	120		1.0	0.32	mg/Kg	☼	02/12/16 09:13	02/16/16 06:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:48	1
Boron	1.3	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Date Collected: 02/09/16 10:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 77.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Lead	0.011		0.0075	0.0075	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Manganese	0.28		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Nickel	0.014	J B	0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 12:48	1
Zinc	1.4	B	0.50	0.020	mg/L	-	02/13/16 13:11	02/15/16 12:48	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.087		0.050	0.0075	mg/L	-	02/13/16 10:28	02/17/16 08:25	1
Manganese	0.52		0.025	0.010	mg/L	-	02/13/16 10:28	02/17/16 08:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 13:11	02/15/16 14:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 13:11	02/15/16 14:28	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 15:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.019	0.0099	mg/Kg	☼	02/14/16 19:45	02/15/16 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.90		0.200	0.200	SU	-		02/12/16 13:59	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Benzene	<0.0045		0.0045	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Bromoform	<0.0045		0.0045	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Bromomethane	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Carbon disulfide	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Chloroform	<0.0045		0.0045	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,1-Dichloroethane	<0.0045		0.0045	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,2-Dichloroethane	<0.0045		0.0045	0.00066	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,3-Dichloropropene, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Styrene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Vinyl acetate	<0.0045 *		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/10/16 17:25	02/16/16 16:49	1
Dibromofluoromethane	104		75 - 120	02/10/16 17:25	02/16/16 16:49	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/10/16 17:25	02/16/16 16:49	1
Toluene-d8 (Surr)	109		75 - 122	02/10/16 17:25	02/16/16 16:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Fluoranthene	0.013	J	0.039	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Pyrene	0.014	J	0.039	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Benzo[a]anthracene	0.0081	J	0.039	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Benzo[b]fluoranthene	0.013	J	0.039	0.0085	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Benzo[a]pyrene	0.0089	J	0.039	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	117	X	25 - 110				02/11/16 07:18	02/19/16 00:36	1
Phenol-d5	105		31 - 110				02/11/16 07:18	02/19/16 00:36	1
Nitrobenzene-d5	96		25 - 115				02/11/16 07:18	02/19/16 00:36	1
2-Fluorobiphenyl	88		25 - 119				02/11/16 07:18	02/19/16 00:36	1
2,4,6-Tribromophenol	83		35 - 137				02/11/16 07:18	02/19/16 00:36	1
Terphenyl-d14	105		36 - 134				02/11/16 07:18	02/19/16 00:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Arsenic	5.8		0.60	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Barium	86		0.60	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Beryllium	0.99		0.24	0.052	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Boron	7.3		3.0	0.42	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Cadmium	0.075	J	0.12	0.035	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Calcium	9800		12	3.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Chromium	25	B	0.60	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Cobalt	12		0.30	0.068	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Copper	24		0.60	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Iron	22000	B	12	4.7	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Lead	18		0.30	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Magnesium	7600		6.0	2.5	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Manganese	190	B	0.60	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Nickel	35	B	0.60	0.16	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Potassium	2000		30	4.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Sodium	1000		60	8.0	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Thallium	<0.60	L	0.60	0.30	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Vanadium	31		0.30	0.088	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1
Zinc	69		1.2	0.38	mg/Kg	☼	02/12/16 09:13	02/16/16 06:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 12:54	1
Boron	1.0	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 12:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 12:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:54	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 12:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 12:54	1
Manganese	0.58		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:54	1
Nickel	0.012	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 12:54	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 12:54	1
Zinc	0.20	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 12:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 08:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:32	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.76		0.200	0.200	SU			02/12/16 14:03	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Date Collected: 02/09/16 11:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.057		0.020	0.0039	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Bromodichloromethane	<0.0050		0.0050	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
2-Butanone (MEK)	0.013		0.0050	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00080	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Vinyl acetate	<0.0050 *		0.0050	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	02/10/16 17:25	02/16/16 17:14	1
Dibromofluoromethane	104		75 - 120	02/10/16 17:25	02/16/16 17:14	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134	02/10/16 17:25	02/16/16 17:14	1
Toluene-d8 (Surr)	109		75 - 122	02/10/16 17:25	02/16/16 17:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Date Collected: 02/09/16 11:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Phenanthrene	0.024	J	0.040	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Fluoranthene	0.041		0.040	0.0075	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Pyrene	0.035	J	0.040	0.0080	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Benzo[a]anthracene	0.019	J	0.040	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Date Collected: 02/09/16 11:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.040	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Benzo[b]fluoranthene	0.034	J	0.040	0.0087	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Benzo[k]fluoranthene	0.013	J	0.040	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Benzo[a]pyrene	0.019	J	0.040	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	119	X	25 - 110	02/11/16 07:18	02/19/16 01:01	1
Phenol-d5	105		31 - 110	02/11/16 07:18	02/19/16 01:01	1
Nitrobenzene-d5	97		25 - 115	02/11/16 07:18	02/19/16 01:01	1
2-Fluorobiphenyl	87		25 - 119	02/11/16 07:18	02/19/16 01:01	1
2,4,6-Tribromophenol	91		35 - 137	02/11/16 07:18	02/19/16 01:01	1
Terphenyl-d14	104		36 - 134	02/11/16 07:18	02/19/16 01:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Arsenic	7.0		0.58	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Barium	83		0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Beryllium	0.89		0.23	0.050	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Boron	5.7		2.9	0.40	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Calcium	9200		12	3.7	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Chromium	22	B	0.58	0.099	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Cobalt	11		0.29	0.065	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Copper	20		0.58	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Iron	23000	B	12	4.4	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Lead	14		0.29	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Magnesium	8500		5.8	2.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Manganese	240	B	0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Nickel	32	B	0.58	0.16	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Potassium	1600		29	4.7	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Selenium	0.58		0.58	0.29	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Sodium	1700		58	7.6	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Vanadium	31		0.29	0.084	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1
Zinc	65		1.2	0.37	mg/Kg	☼	02/12/16 09:13	02/16/16 06:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49	J B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:17	1
Boron	1.3	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Date Collected: 02/09/16 11:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 13:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:17	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:17	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 13:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 13:17	1
Manganese	3.3		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:17	1
Nickel	0.020	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 13:17	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:17	1
Zinc	0.28	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 13:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 08:39	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:36	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:36	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.021	0.011	mg/Kg	☼	02/14/16 19:45	02/15/16 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			02/12/16 14:08	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Bromoform	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Vinyl acetate	<0.0042 *		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/10/16 17:25	02/16/16 17:39	1
Dibromofluoromethane	105		75 - 120	02/10/16 17:25	02/16/16 17:39	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 17:39	1
Toluene-d8 (Surr)	111		75 - 122	02/10/16 17:25	02/16/16 17:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2-Methylnaphthalene	<0.041		0.041	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Phenanthrene	0.018	J	0.041	0.0057	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Pyrene	0.015	J	0.041	0.0082	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.015	J	0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/11/16 07:18	02/19/16 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	117	X	25 - 110	02/11/16 07:18	02/19/16 01:27	1
Phenol-d5	102		31 - 110	02/11/16 07:18	02/19/16 01:27	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:18	02/19/16 01:27	1
2-Fluorobiphenyl	87		25 - 119	02/11/16 07:18	02/19/16 01:27	1
2,4,6-Tribromophenol	80		35 - 137	02/11/16 07:18	02/19/16 01:27	1
Terphenyl-d14	101		36 - 134	02/11/16 07:18	02/19/16 01:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Arsenic	4.6		0.51	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Barium	60		0.51	0.092	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Beryllium	0.75		0.20	0.044	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Boron	15		2.5	0.35	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Calcium	56000		100	33	mg/Kg	☼	02/12/16 09:13	02/16/16 10:14	10
Chromium	20	B	0.51	0.087	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Cobalt	12		0.25	0.057	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Copper	21		0.51	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Iron	19000	B	10	3.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Lead	13		0.25	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Magnesium	22000		5.1	2.1	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Manganese	280	B	0.51	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Nickel	35	B	0.51	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Potassium	3000		25	4.1	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Sodium	560		51	6.7	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Vanadium	22		0.25	0.074	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1
Zinc	55		1.0	0.32	mg/Kg	☼	02/12/16 09:13	02/16/16 06:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:24	1
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Manganese	1.3		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Nickel	0.028	B	0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:24	1
Zinc	0.23	J B	0.50	0.020	mg/L	-	02/13/16 13:11	02/15/16 13:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.44		0.025	0.010	mg/L	-	02/13/16 10:28	02/17/16 08:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 13:11	02/15/16 14:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 13:11	02/15/16 14:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 15:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.018	0.0097	mg/Kg	☼	02/14/16 19:45	02/15/16 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU	-		02/12/16 14:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Date Collected: 02/09/16 11:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Bromodichloromethane	<0.0043		0.0043	0.00073	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Bromoform	<0.0043		0.0043	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Carbon tetrachloride	<0.0043		0.0043	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Chloroethane	<0.0043		0.0043	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Chloroform	<0.0043		0.0043	0.00084	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,1-Dichloroethane	<0.0043		0.0043	0.00089	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,2-Dichloroethane	<0.0043		0.0043	0.00064	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Methylene Chloride	<0.0043		0.0043	0.0033	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00089	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Vinyl acetate	<0.0043 *		0.0043	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1
Xylenes, Total	<0.0086		0.0086	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/10/16 17:25	02/16/16 18:04	1
Dibromofluoromethane	104		75 - 120	02/10/16 17:25	02/16/16 18:04	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/10/16 17:25	02/16/16 18:04	1
Toluene-d8 (Surr)	114		75 - 122	02/10/16 17:25	02/16/16 18:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.21		0.21	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
1,3-Dichlorobenzene	<0.21		0.21	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Date Collected: 02/09/16 11:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2-Chlorophenol	<0.21		0.21	0.071	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Naphthalene	0.031	J	0.041	0.0064	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2-Methylnaphthalene	0.060		0.041	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2-Nitroaniline	<0.21		0.21	0.056	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2-Nitrophenol	<0.41		0.41	0.098	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Acenaphthylene	<0.041		0.041	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Phenanthrene	0.050		0.041	0.0058	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Fluoranthene	0.0077	J	0.041	0.0077	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Pyrene	0.018	J	0.041	0.0082	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Butyl benzyl phthalate	<0.21		0.21	0.079	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Benzo[a]anthracene	<0.041		0.041	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Date Collected: 02/09/16 11:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.021	J	0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.076	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
Benzo[g,h,i]perylene	0.017	J	0.041	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	02/11/16 07:18	02/19/16 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	116	X	25 - 110	02/11/16 07:18	02/19/16 01:53	1
Phenol-d5	102		31 - 110	02/11/16 07:18	02/19/16 01:53	1
Nitrobenzene-d5	96		25 - 115	02/11/16 07:18	02/19/16 01:53	1
2-Fluorobiphenyl	86		25 - 119	02/11/16 07:18	02/19/16 01:53	1
2,4,6-Tribromophenol	66		35 - 137	02/11/16 07:18	02/19/16 01:53	1
Terphenyl-d14	103		36 - 134	02/11/16 07:18	02/19/16 01:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Arsenic	6.2		0.60	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Barium	54		0.60	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Beryllium	0.66		0.24	0.052	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Boron	15		3.0	0.42	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Calcium	57000		120	38	mg/Kg	☼	02/12/16 09:13	02/16/16 10:18	10
Chromium	21	B	0.60	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Cobalt	14		0.30	0.067	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Copper	23		0.60	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Iron	20000	B	12	4.6	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Lead	13		0.30	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Magnesium	23000		6.0	2.4	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Manganese	330	B	0.60	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Nickel	38	B	0.60	0.16	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Potassium	3000		30	4.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Sodium	220		60	7.9	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Vanadium	22		0.30	0.087	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1
Zinc	55		1.2	0.38	mg/Kg	☼	02/12/16 09:13	02/16/16 06:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.92	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:31	1
Boron	1.4	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Date Collected: 02/09/16 11:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 79.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 13:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:31	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:31	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 13:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 13:31	1
Manganese	2.0		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:31	1
Nickel	0.065	B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 13:31	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:31	1
Zinc	0.25	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 13:31	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.24		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 08:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 14:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 14:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.0098	mg/Kg	☼	02/14/16 19:45	02/15/16 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU			02/12/16 14:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B28 (0-8)

Lab Sample ID: 500-107399-11

Date Collected: 02/09/16 11:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.016	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Vinyl acetate	<0.0041 *		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/10/16 17:25	02/16/16 18:29	1
Dibromofluoromethane	103		75 - 120	02/10/16 17:25	02/16/16 18:29	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 18:29	1
Toluene-d8 (Surr)	108		75 - 122	02/10/16 17:25	02/16/16 18:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B28 (0-8)

Lab Sample ID: 500-107399-11

Date Collected: 02/09/16 11:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Pyrene	<0.040		0.040	0.0080	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1

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TestAmerica Job ID: 500-107399-1

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Lab Sample ID: 500-107399-11

Date Collected: 02/09/16 11:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	113	X	25 - 110	02/11/16 07:18	02/19/16 02:19	1
Phenol-d5	100		31 - 110	02/11/16 07:18	02/19/16 02:19	1
Nitrobenzene-d5	97		25 - 115	02/11/16 07:18	02/19/16 02:19	1
2-Fluorobiphenyl	88		25 - 119	02/11/16 07:18	02/19/16 02:19	1
2,4,6-Tribromophenol	82		35 - 137	02/11/16 07:18	02/19/16 02:19	1
Terphenyl-d14	104		36 - 134	02/11/16 07:18	02/19/16 02:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Arsenic	9.0		0.56	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Barium	22		0.56	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Beryllium	0.45		0.22	0.049	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Boron	2.9		2.8	0.39	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Calcium	1500		11	3.6	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Chromium	14 B		0.56	0.097	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Cobalt	8.6		0.28	0.064	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Copper	17		0.56	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Iron	18000 B		11	4.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Lead	14		0.28	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Magnesium	2000		5.6	2.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Manganese	120 B		0.56	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Nickel	20 B		0.56	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Potassium	910		28	4.6	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Selenium	0.33 J		0.56	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Sodium	660		56	7.4	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Vanadium	26		0.28	0.082	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1
Zinc	44		1.1	0.36	mg/Kg	☼	02/12/16 09:13	02/16/16 06:42	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16 J B		0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:37	1
Boron	1.6 J B		2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B28 (0-8)

Lab Sample ID: 500-107399-11

Date Collected: 02/09/16 11:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Cobalt	0.011	J	0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Iron	0.38	J B	0.40	0.20	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Lead	0.014		0.0075	0.0075	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Manganese	1.2		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Nickel	0.020	J B	0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:37	1
Zinc	0.30	J B	0.50	0.020	mg/L	-	02/13/16 13:11	02/15/16 13:37	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.027	J	0.050	0.0075	mg/L	-	02/13/16 10:28	02/17/16 08:59	1
Manganese	0.27		0.025	0.010	mg/L	-	02/13/16 10:28	02/17/16 08:59	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 13:11	02/15/16 14:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 13:11	02/15/16 14:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0093	mg/Kg	☼	02/14/16 19:45	02/15/16 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU	-		02/12/16 14:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122	02/10/16 17:25	02/16/16 18:54	1
Dibromofluoromethane	106		75 - 120	02/10/16 17:25	02/16/16 18:54	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 18:54	1
Toluene-d8 (Surr)	109		75 - 122	02/10/16 17:25	02/16/16 18:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Phenanthrene	0.013	J	0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Fluoranthene	0.032	J	0.039	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Pyrene	0.028	J	0.039	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Benzo[a]anthracene	0.018	J	0.039	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Benzo[b]fluoranthene	0.027	J	0.039	0.0085	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Benzo[k]fluoranthene	0.012	J	0.039	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Benzo[a]pyrene	0.018	J	0.039	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	117	X	25 - 110	02/11/16 07:18	02/19/16 02:45	1
Phenol-d5	103		31 - 110	02/11/16 07:18	02/19/16 02:45	1
Nitrobenzene-d5	97		25 - 115	02/11/16 07:18	02/19/16 02:45	1
2-Fluorobiphenyl	90		25 - 119	02/11/16 07:18	02/19/16 02:45	1
2,4,6-Tribromophenol	85		35 - 137	02/11/16 07:18	02/19/16 02:45	1
Terphenyl-d14	104		36 - 134	02/11/16 07:18	02/19/16 02:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Arsenic	3.8		0.55	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Barium	72		0.55	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Beryllium	0.72		0.22	0.047	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Boron	11		2.7	0.38	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Cadmium	0.067	J	0.11	0.032	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Calcium	33000		11	3.5	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Chromium	20	B	0.55	0.094	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Cobalt	16		0.27	0.062	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Copper	18		0.55	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Iron	18000	B	11	4.2	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Lead	14		0.27	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Magnesium	14000		5.5	2.2	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Manganese	450	B	0.55	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Nickel	34	B	0.55	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Potassium	2400		27	4.5	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Sodium	380		55	7.2	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Vanadium	24		0.27	0.080	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1
Zinc	51		1.1	0.35	mg/Kg	☼	02/12/16 09:13	02/16/16 06:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:44	1
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 13:44	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:44	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:44	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 13:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 13:44	1
Manganese	0.33		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:44	1
Nickel	0.012	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:44	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 13:44	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:44	1
Zinc	0.20	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 13:44	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 09:06	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0092	mg/Kg	☼	02/14/16 19:45	02/15/16 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.68		0.200	0.200	SU			02/12/16 14:29	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/10/16 17:25	02/17/16 11:45	1
Dibromofluoromethane	97		75 - 120	02/10/16 17:25	02/17/16 11:45	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/10/16 17:25	02/17/16 11:45	1
Toluene-d8 (Surr)	102		75 - 122	02/10/16 17:25	02/17/16 11:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Fluorene	0.0063	J	0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Phenanthrene	0.070		0.038	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Anthracene	0.015	J	0.038	0.0064	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Fluoranthene	0.15		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Pyrene	0.14		0.038	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Benzo[a]anthracene	0.073		0.038	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.094		0.038	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Benzo[k]fluoranthene	0.043		0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Benzo[a]pyrene	0.074		0.038	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.038	0.0099	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Dibenz(a,h)anthracene	0.010	J	0.038	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
Benzo[g,h,i]perylene	0.031	J	0.038	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	111	X	25 - 110	02/11/16 07:18	02/19/16 03:11	1
Phenol-d5	98		31 - 110	02/11/16 07:18	02/19/16 03:11	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:18	02/19/16 03:11	1
2-Fluorobiphenyl	84		25 - 119	02/11/16 07:18	02/19/16 03:11	1
2,4,6-Tribromophenol	76		35 - 137	02/11/16 07:18	02/19/16 03:11	1
Terphenyl-d14	104		36 - 134	02/11/16 07:18	02/19/16 03:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Arsenic	7.0		0.53	0.25	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Barium	64		0.53	0.097	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Beryllium	0.65		0.21	0.046	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Boron	7.0		2.7	0.37	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Calcium	29000		11	3.4	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Chromium	16	B	0.53	0.092	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Cobalt	11		0.27	0.060	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Copper	27		0.53	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Iron	18000	B	11	4.1	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Lead	19		0.27	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Magnesium	19000		5.3	2.2	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Manganese	300	B	0.53	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Nickel	28	B	0.53	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Potassium	1400		27	4.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Sodium	320		53	7.0	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Vanadium	27		0.27	0.078	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1
Zinc	49		1.1	0.34	mg/Kg	☼	02/12/16 09:13	02/16/16 06:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:51	1
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 13:51	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:51	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:51	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 13:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 13:51	1
Manganese	0.50		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:51	1
Nickel	0.013	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 13:51	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 13:51	1
Zinc	0.19	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 13:51	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 09:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:04	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:04	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0092	mg/Kg	☼	02/14/16 19:45	02/15/16 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU			02/12/16 14:33	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0034	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Vinyl acetate	<0.0044 *		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/10/16 17:25	02/16/16 19:44	1
Dibromofluoromethane	105		75 - 120	02/10/16 17:25	02/16/16 19:44	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	02/10/16 17:25	02/16/16 19:44	1
Toluene-d8 (Surr)	108		75 - 122	02/10/16 17:25	02/16/16 19:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Phenanthrene	0.046		0.038	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Anthracene	0.0080	J	0.038	0.0064	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Fluoranthene	0.095		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Pyrene	0.090		0.038	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Benzo[a]anthracene	0.045		0.038	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.064		0.038	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Benzo[b]fluoranthene	0.097		0.038	0.0083	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Benzo[k]fluoranthene	0.037 J		0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Benzo[a]pyrene	0.050		0.038	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Indeno[1,2,3-cd]pyrene	0.021 J		0.038	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Benzo[g,h,i]perylene	0.024 J		0.038	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	117	X	25 - 110				02/11/16 07:18	02/19/16 03:37	1
Phenol-d5	103		31 - 110				02/11/16 07:18	02/19/16 03:37	1
Nitrobenzene-d5	97		25 - 115				02/11/16 07:18	02/19/16 03:37	1
2-Fluorobiphenyl	86		25 - 119				02/11/16 07:18	02/19/16 03:37	1
2,4,6-Tribromophenol	78		35 - 137				02/11/16 07:18	02/19/16 03:37	1
Terphenyl-d14	110		36 - 134				02/11/16 07:18	02/19/16 03:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Arsenic	4.8		0.56	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Barium	69		0.56	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Beryllium	0.62		0.23	0.049	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Boron	7.4		2.8	0.39	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Calcium	23000		11	3.6	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Chromium	18 B		0.56	0.097	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Cobalt	8.2		0.28	0.064	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Copper	23		0.56	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Iron	16000 B		11	4.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Lead	17		0.28	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Magnesium	14000		5.6	2.3	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Manganese	230 B		0.56	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Nickel	26 B		0.56	0.15	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Potassium	1600		28	4.6	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Selenium	0.53 J		0.56	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Sodium	350		56	7.4	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Vanadium	21		0.28	0.082	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1
Zinc	47		1.1	0.36	mg/Kg	☼	02/12/16 09:13	02/16/16 06:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62 B		0.50	0.050	mg/L		02/13/16 13:11	02/15/16 13:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 13:58	1
Boron	0.95 J B		2.0	0.050	mg/L		02/13/16 13:11	02/15/16 13:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Lead	0.0082		0.0075	0.0075	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Manganese	0.89		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Nickel	0.015	J B	0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 13:58	1
Zinc	0.49	J B	0.50	0.020	mg/L	-	02/13/16 13:11	02/15/16 13:58	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.046	J	0.050	0.0075	mg/L	-	02/13/16 10:28	02/17/16 09:37	1
Manganese	0.38		0.025	0.010	mg/L	-	02/13/16 10:28	02/17/16 09:37	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 13:11	02/15/16 15:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 13:11	02/15/16 15:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0097	mg/Kg	☼	02/14/16 19:45	02/15/16 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU	-		02/12/16 14:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Date Collected: 02/09/16 13:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
2-Butanone (MEK)	<0.0044 *		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Chloroethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/10/16 17:25	02/16/16 22:06	1
Dibromofluoromethane	104		75 - 120	02/10/16 17:25	02/16/16 22:06	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 22:06	1
Toluene-d8 (Surr)	107		75 - 122	02/10/16 17:25	02/16/16 22:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Date Collected: 02/09/16 13:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,4-Dinitrophenol	<0.80		0.80	0.69	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Hexachlorobenzene	<0.080		0.080	0.0091	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Fluoranthene	0.0086	J	0.039	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Pyrene	0.0083	J	0.039	0.0078	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Benzo[a]anthracene	0.0056	J	0.039	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Date Collected: 02/09/16 13:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	121	X	25 - 110	02/11/16 07:18	02/19/16 04:03	1
Phenol-d5	107		31 - 110	02/11/16 07:18	02/19/16 04:03	1
Nitrobenzene-d5	98		25 - 115	02/11/16 07:18	02/19/16 04:03	1
2-Fluorobiphenyl	89		25 - 119	02/11/16 07:18	02/19/16 04:03	1
2,4,6-Tribromophenol	92		35 - 137	02/11/16 07:18	02/19/16 04:03	1
Terphenyl-d14	111		36 - 134	02/11/16 07:18	02/19/16 04:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Arsenic	2.9		0.58	0.27	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Barium	45		0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Beryllium	0.43		0.23	0.050	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Boron	4.0		2.9	0.40	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Calcium	14000		12	3.7	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Chromium	14 B		0.58	0.099	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Cobalt	5.2		0.29	0.065	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Copper	8.2		0.58	0.12	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Iron	10000 B		12	4.4	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Lead	11		0.29	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Magnesium	9800		5.8	2.3	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Manganese	120 B		0.58	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Nickel	14 B		0.58	0.16	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Potassium	800		29	4.7	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Selenium	<0.58		0.58	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Sodium	820		58	7.6	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Vanadium	19		0.29	0.084	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1
Zinc	58		1.2	0.36	mg/Kg	☼	02/12/16 09:13	02/16/16 07:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 14:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 14:04	1
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 14:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Date Collected: 02/09/16 13:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 14:04	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:04	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:04	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 14:04	1
Lead	0.0097		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 14:04	1
Manganese	1.6		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:04	1
Nickel	0.015	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 14:04	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:04	1
Zinc	0.33	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 14:04	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.050		0.050	0.0075	mg/L		02/13/16 10:28	02/17/16 09:44	1
Manganese	0.40		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 09:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0098	mg/Kg	☼	02/14/16 19:45	02/15/16 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			02/12/16 14:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Bromodichloromethane	<0.0045		0.0045	0.00077	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Bromoform	<0.0045		0.0045	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
2-Butanone (MEK)	<0.0045 *		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Carbon tetrachloride	<0.0045		0.0045	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Chloroethane	<0.0045		0.0045	0.0019	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Chloroform	<0.0045		0.0045	0.00089	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,1-Dichloroethane	<0.0045		0.0045	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,1-Dichloroethene	<0.0045		0.0045	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00072	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Tetrachloroethene	0.027		0.0045	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1
Xylenes, Total	<0.0091		0.0091	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/10/16 17:25	02/16/16 22:32	1
Dibromofluoromethane	104		75 - 120	02/10/16 17:25	02/16/16 22:32	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/10/16 17:25	02/16/16 22:32	1
Toluene-d8 (Surr)	109		75 - 122	02/10/16 17:25	02/16/16 22:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Naphthalene	0.014	J	0.036	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2-Methylnaphthalene	0.0098	J	0.036	0.0067	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Acenaphthene	0.097		0.036	0.0066	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Dibenzofuran	0.064	J	0.18	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Fluorene	0.15		0.036	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Phenanthrene	1.5		0.036	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Anthracene	0.40		0.036	0.0061	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Carbazole	0.14	J	0.18	0.091	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Fluoranthene	1.6		0.036	0.0068	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Pyrene	1.3		0.036	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Benzo[a]anthracene	0.57		0.036	0.0049	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 86.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.61		0.036	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Benzo[b]fluoranthene	0.77		0.036	0.0079	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Benzo[k]fluoranthene	0.32		0.036	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Benzo[a]pyrene	0.46		0.036	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Indeno[1,2,3-cd]pyrene	0.14		0.036	0.0095	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Dibenz(a,h)anthracene	0.040		0.036	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
Benzo[g,h,i]perylene	0.13		0.036	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	124	X	25 - 110	02/11/16 07:18	02/19/16 04:28	1
Phenol-d5	111	X	31 - 110	02/11/16 07:18	02/19/16 04:28	1
Nitrobenzene-d5	104		25 - 115	02/11/16 07:18	02/19/16 04:28	1
2-Fluorobiphenyl	93		25 - 119	02/11/16 07:18	02/19/16 04:28	1
2,4,6-Tribromophenol	96		35 - 137	02/11/16 07:18	02/19/16 04:28	1
Terphenyl-d14	118		36 - 134	02/11/16 07:18	02/19/16 04:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Arsenic	6.7		0.52	0.24	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Barium	81		0.52	0.096	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Beryllium	0.56		0.21	0.045	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Boron	7.1		2.6	0.37	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Cadmium	0.27		0.10	0.030	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Calcium	29000		10	3.4	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Chromium	15 B		0.52	0.090	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Cobalt	13		0.26	0.059	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Copper	24		0.52	0.11	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Iron	16000 B		10	4.0	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Lead	40		0.26	0.13	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Magnesium	18000		5.2	2.1	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Manganese	490 B		0.52	0.10	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Nickel	28 B		0.52	0.14	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Potassium	1400		26	4.3	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Selenium	0.67		0.52	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Sodium	150		52	6.9	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Vanadium	24		0.26	0.076	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1
Zinc	84		1.0	0.33	mg/Kg	☼	02/12/16 09:13	02/16/16 07:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50 B		0.50	0.050	mg/L		02/13/16 13:11	02/15/16 14:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 14:11	1
Boron	1.2 J B		2.0	0.050	mg/L		02/13/16 13:11	02/15/16 14:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 86.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 14:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:11	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 14:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 14:11	1
Manganese	1.1		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:11	1
Nickel	0.014	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 14:11	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:11	1
Zinc	0.63	B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 14:11	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 09:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.94		0.200	0.200	SU			02/12/16 14:46	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Date Collected: 02/09/16 14:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
2-Butanone (MEK)	<0.0042 *		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/10/16 17:25	02/16/16 22:57	1
Dibromofluoromethane	111		75 - 120	02/10/16 17:25	02/16/16 22:57	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/10/16 17:25	02/16/16 22:57	1
Toluene-d8 (Surr)	110		75 - 122	02/10/16 17:25	02/16/16 22:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1

TestAmerica Chicago

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TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Date Collected: 02/09/16 14:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Phenanthrene	0.0097	J	0.038	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Pyrene	0.011	J	0.038	0.0076	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1

TestAmerica Chicago

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Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Date Collected: 02/09/16 14:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.038	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	120	X	25 - 110	02/11/16 07:18	02/19/16 04:54	1
Phenol-d5	106		31 - 110	02/11/16 07:18	02/19/16 04:54	1
Nitrobenzene-d5	99		25 - 115	02/11/16 07:18	02/19/16 04:54	1
2-Fluorobiphenyl	90		25 - 119	02/11/16 07:18	02/19/16 04:54	1
2,4,6-Tribromophenol	78		35 - 137	02/11/16 07:18	02/19/16 04:54	1
Terphenyl-d14	117		36 - 134	02/11/16 07:18	02/19/16 04:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F2 F1	1.1	0.23	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Arsenic	4.5		0.56	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Barium	42	F1	0.56	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Beryllium	0.54		0.22	0.048	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Boron	12	F1	2.8	0.39	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Calcium	79000	B F2	110	36	mg/Kg	☼	02/13/16 13:20	02/16/16 00:26	10
Chromium	16	F1 B	0.56	0.096	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Cobalt	11		0.28	0.063	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Copper	17		0.56	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Iron	16000	F2 B	11	4.3	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Lead	10		0.28	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Magnesium	31000	F2 B	5.6	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Manganese	390	F2	0.56	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Nickel	28	F1	0.56	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Potassium	2400	F2	28	4.6	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Selenium	<0.56	F1	0.56	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Sodium	180		56	7.4	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Thallium	<0.56	F2	0.56	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Vanadium	18		0.28	0.082	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1
Zinc	47	F1	1.1	0.35	mg/Kg	☼	02/13/16 13:20	02/15/16 19:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.63	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 14:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 14:18	1
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 14:18	1

TestAmerica Chicago

Client Sample Results

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 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Date Collected: 02/09/16 14:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 14:18	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:18	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:18	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 14:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 14:18	1
Manganese	2.2		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:18	1
Nickel	0.037	B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 14:18	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:18	1
Zinc	0.21	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 14:18	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 09:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0095	mg/Kg	☼	02/14/16 19:45	02/15/16 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			02/12/16 14:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
2-Butanone (MEK)	<0.0040 *		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/10/16 17:25	02/16/16 23:22	1
Dibromofluoromethane	105		75 - 120	02/10/16 17:25	02/16/16 23:22	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	02/10/16 17:25	02/16/16 23:22	1
Toluene-d8 (Surr)	111		75 - 122	02/10/16 17:25	02/16/16 23:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2-Methylnaphthalene	0.0077	J	0.039	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,4-Dinitrophenol	<0.78		0.78	0.69	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Phenanthrene	0.025	J	0.039	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	114	X	25 - 110	02/11/16 07:18	02/19/16 05:20	1
Phenol-d5	102		31 - 110	02/11/16 07:18	02/19/16 05:20	1
Nitrobenzene-d5	95		25 - 115	02/11/16 07:18	02/19/16 05:20	1
2-Fluorobiphenyl	87		25 - 119	02/11/16 07:18	02/19/16 05:20	1
2,4,6-Tribromophenol	74		35 - 137	02/11/16 07:18	02/19/16 05:20	1
Terphenyl-d14	117		36 - 134	02/11/16 07:18	02/19/16 05:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Arsenic	5.7		0.58	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Barium	38		0.58	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Beryllium	0.46		0.23	0.050	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Boron	12		2.9	0.40	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Cadmium	0.037	J	0.12	0.033	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Calcium	88000	B	120	37	mg/Kg	☼	02/13/16 13:20	02/16/16 00:55	10
Chromium	15	B	0.58	0.099	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Cobalt	10		0.29	0.065	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Copper	20		0.58	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Iron	16000	B	12	4.5	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Lead	11		0.29	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Magnesium	37000	B	5.8	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Manganese	440		0.58	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Nickel	26		0.58	0.16	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Potassium	2300		29	4.7	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Sodium	200		58	7.6	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Thallium	0.42	J	0.58	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Vanadium	17		0.29	0.084	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1
Zinc	47		1.2	0.37	mg/Kg	☼	02/13/16 13:20	02/15/16 20:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 14:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 14:40	1
Boron	2.0	B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 14:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:40	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:40	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 14:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 14:40	1
Manganese	2.2		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:40	1
Nickel	0.043	B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 14:40	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:40	1
Zinc	0.33	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 14:40	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 10:28	02/17/16 10:04	1
Manganese	0.24		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 10:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.57		0.200	0.200	SU			02/12/16 14:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Date Collected: 02/09/16 12:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
2-Butanone (MEK)	<0.0040 *		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/10/16 17:25	02/16/16 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/10/16 17:25	02/16/16 23:47	1
Dibromofluoromethane	103		75 - 120	02/10/16 17:25	02/16/16 23:47	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/10/16 17:25	02/16/16 23:47	1
Toluene-d8 (Surr)	111		75 - 122	02/10/16 17:25	02/16/16 23:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Date Collected: 02/09/16 12:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2-Methylnaphthalene	<0.039		0.039	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Phenanthrene	0.0072	J	0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Pyrene	0.014	J	0.039	0.0079	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Benzo[a]anthracene	0.0071	J	0.039	0.0053	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Date Collected: 02/09/16 12:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.012	J	0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Benzo[b]fluoranthene	0.013	J	0.039	0.0085	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	122	X	25 - 110	02/11/16 07:18	02/19/16 05:46	1
Phenol-d5	108		31 - 110	02/11/16 07:18	02/19/16 05:46	1
Nitrobenzene-d5	102		25 - 115	02/11/16 07:18	02/19/16 05:46	1
2-Fluorobiphenyl	94		25 - 119	02/11/16 07:18	02/19/16 05:46	1
2,4,6-Tribromophenol	92		35 - 137	02/11/16 07:18	02/19/16 05:46	1
Terphenyl-d14	122		36 - 134	02/11/16 07:18	02/19/16 05:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Arsenic	4.7		0.57	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Barium	56		0.57	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Beryllium	0.57		0.23	0.049	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Boron	7.3		2.9	0.40	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Cadmium	0.052	J	0.11	0.033	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Calcium	15000	B	11	3.7	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Chromium	17	B	0.57	0.098	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Cobalt	10		0.29	0.065	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Copper	16		0.57	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Iron	15000	B	11	4.4	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Lead	14		0.29	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Magnesium	8100	B	5.7	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Manganese	230		0.57	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Nickel	27		0.57	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Potassium	1500		29	4.7	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Sodium	270		57	7.5	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Vanadium	22		0.29	0.083	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1
Zinc	48		1.1	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 20:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60	B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 14:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 14:47	1
Boron	1.6	J B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Date Collected: 02/09/16 12:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 14:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:47	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:47	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 13:11	02/15/16 14:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 14:47	1
Manganese	0.23		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:47	1
Nickel	0.011	J B	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 14:47	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 14:47	1
Zinc	0.17	J B	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 14:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 10:11	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 15:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 15:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0091	mg/Kg	☼	02/14/16 19:45	02/15/16 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			02/12/16 14:59	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Date Collected: 02/09/16 13:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Bromodichloromethane	<0.0049		0.0049	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Bromoform	<0.0049		0.0049	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
2-Butanone (MEK)	<0.0049 *		0.0049	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Carbon tetrachloride	<0.0049		0.0049	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Chlorobenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Chloroethane	<0.0049		0.0049	0.0021	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Chloroform	<0.0049		0.0049	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Dibromochloromethane	<0.0049		0.0049	0.00057	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,2-Dichloroethane	<0.0049		0.0049	0.00073	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,3-Dichloropropane, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Styrene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,1,2,2-Tetrachloroethane	<0.0049		0.0049	0.00079	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/10/16 17:25	02/17/16 00:12	1
Dibromofluoromethane	107		75 - 120	02/10/16 17:25	02/17/16 00:12	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/10/16 17:25	02/17/16 00:12	1
Toluene-d8 (Surr)	109		75 - 122	02/10/16 17:25	02/17/16 00:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Date Collected: 02/09/16 13:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2-Methylnaphthalene	<0.039		0.039	0.0071	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Phenanthrene	0.018	J	0.039	0.0054	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Fluoranthene	0.012	J	0.039	0.0072	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Pyrene	0.010	J	0.039	0.0077	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Benzo[a]anthracene	0.0052	J	0.039	0.0052	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Date Collected: 02/09/16 13:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:18	02/19/16 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	123	X	25 - 110	02/11/16 07:18	02/19/16 06:12	1
Phenol-d5	109		31 - 110	02/11/16 07:18	02/19/16 06:12	1
Nitrobenzene-d5	106		25 - 115	02/11/16 07:18	02/19/16 06:12	1
2-Fluorobiphenyl	93		25 - 119	02/11/16 07:18	02/19/16 06:12	1
2,4,6-Tribromophenol	97		35 - 137	02/11/16 07:18	02/19/16 06:12	1
Terphenyl-d14	123		36 - 134	02/11/16 07:18	02/19/16 06:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Arsenic	8.2		0.57	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Barium	72		0.57	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Beryllium	0.55		0.23	0.050	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Boron	6.0		2.9	0.40	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Cadmium	0.14		0.11	0.033	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Calcium	27000	B	11	3.7	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Chromium	16	B	0.57	0.099	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Cobalt	14		0.29	0.065	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Copper	23		0.57	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Lead	17		0.29	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Magnesium	20000	B	5.7	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Manganese	710		0.57	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Nickel	38		0.57	0.16	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Potassium	1400		29	4.7	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Selenium	0.57		0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Sodium	190		57	7.6	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Thallium	0.43	J	0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Vanadium	22		0.29	0.084	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1
Zinc	56		1.1	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 20:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J B	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 14:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 14:54	1
Boron	1.3	J F1 B	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Date Collected: 02/09/16 13:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Manganese	2.0		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Nickel	0.021	J B	0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 13:11	02/15/16 14:54	1
Zinc	0.15	J B	0.50	0.020	mg/L	-	02/13/16 13:11	02/15/16 14:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.050		0.050	0.020	mg/L	-	02/13/16 10:28	02/17/16 10:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 13:11	02/15/16 15:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 13:11	02/15/16 15:45	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.020	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52		0.200	0.200	SU	-		02/12/16 15:04	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/10/16 17:25	02/17/16 00:37	1
Dibromofluoromethane	104		75 - 120	02/10/16 17:25	02/17/16 00:37	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134	02/10/16 17:25	02/17/16 00:37	1
Toluene-d8 (Surr)	115		75 - 122	02/10/16 17:25	02/17/16 00:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Naphthalene	0.034	J	0.038	0.0058	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2-Methylnaphthalene	0.11		0.038	0.0070	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.67	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Fluorene	0.010	J	0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4-Bromophenyl phenyl ether	<0.19	F1	0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
N-Nitrosodiphenylamine	<0.19	F1	0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
4,6-Dinitro-2-methylphenol	<0.76	F1	0.76	0.30	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Phenanthrene	0.094		0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Fluoranthene	0.054		0.038	0.0070	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Pyrene	0.16	F1	0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.072	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Benzo[a]anthracene	0.033	J	0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.088		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.069	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Di-n-octyl phthalate	<0.19	F1	0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Benzo[b]fluoranthene	0.068		0.038	0.0082	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Benzo[k]fluoranthene	0.027	J	0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Benzo[a]pyrene	0.064		0.038	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
Benzo[g,h,i]perylene	0.077		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		25 - 110	02/11/16 07:23	02/18/16 13:56	1
Phenol-d5	109		31 - 110	02/11/16 07:23	02/18/16 13:56	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:23	02/18/16 13:56	1
2-Fluorobiphenyl	91		25 - 119	02/11/16 07:23	02/18/16 13:56	1
2,4,6-Tribromophenol	66		35 - 137	02/11/16 07:23	02/18/16 13:56	1
Terphenyl-d14	195	X	36 - 134	02/11/16 07:23	02/18/16 13:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Arsenic	6.4		0.55	0.25	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Barium	40		0.55	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Beryllium	0.51		0.22	0.047	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Boron	14		2.7	0.38	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Calcium	73000	B	110	35	mg/Kg	☼	02/13/16 13:20	02/16/16 01:07	10
Chromium	16	B	0.55	0.094	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Cobalt	12		0.27	0.062	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Copper	23		0.55	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Iron	16000	B	11	4.2	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Lead	13		0.27	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Magnesium	32000	B	5.5	2.2	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Manganese	320		0.55	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Nickel	32		0.55	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Potassium	2600		27	4.5	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Selenium	0.31	J	0.55	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Sodium	1200		55	7.2	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Thallium	0.30	J	0.55	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Vanadium	20		0.27	0.080	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1
Zinc	47		1.1	0.35	mg/Kg	☼	02/13/16 13:20	02/15/16 20:26	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 14:26	1
Boron	2.1	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 14:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:26	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:26	1
Iron	0.23	J	0.40	0.20	mg/L		02/13/16 12:56	02/15/16 14:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 14:26	1
Manganese	1.8		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:26	1
Nickel	0.035		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:26	1
Selenium	0.025	J	0.050	0.020	mg/L		02/13/16 12:56	02/15/16 14:26	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:26	1
Zinc	0.20	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 14:26	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2	J F1 B	2.0	0.050	mg/L		02/13/16 10:35	02/17/16 00:50	1
Manganese	0.59	F1	0.025	0.010	mg/L		02/13/16 10:35	02/17/16 00:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:14	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0096	mg/Kg	☼	02/14/16 19:45	02/15/16 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			02/12/16 15:08	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Benzene	<0.0044		0.0044	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Bromodichloromethane	<0.0044		0.0044	0.00075	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Bromoform	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Carbon tetrachloride	<0.0044		0.0044	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Chloroethane	<0.0044	*	0.0044	0.0019	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00090	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Dibromochloromethane	<0.0044		0.0044	0.00051	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,1-Dichloroethane	<0.0044		0.0044	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,2-Dichloroethane	<0.0044		0.0044	0.00066	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,2-Dichloropropane	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Methylene Chloride	<0.0044		0.0044	0.0034	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Tetrachloroethene	<0.0044		0.0044	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Vinyl chloride	<0.0044		0.0044	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1
Xylenes, Total	<0.0089		0.0089	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/10/16 17:25	02/17/16 12:10	1
Dibromofluoromethane	92		75 - 120	02/10/16 17:25	02/17/16 12:10	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 134	02/10/16 17:25	02/17/16 12:10	1
Toluene-d8 (Surr)	106		75 - 122	02/10/16 17:25	02/17/16 12:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Naphthalene	0.040		0.040	0.0062	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2-Methylnaphthalene	0.13		0.040	0.0074	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Phenanthrene	0.083		0.040	0.0056	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Pyrene	0.030	J	0.040	0.0080	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Benzo[a]anthracene	0.0058	J	0.040	0.0054	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.040	0.011	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:23	02/18/16 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		25 - 110	02/11/16 07:23	02/18/16 14:21	1
Phenol-d5	107		31 - 110	02/11/16 07:23	02/18/16 14:21	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:23	02/18/16 14:21	1
2-Fluorobiphenyl	91		25 - 119	02/11/16 07:23	02/18/16 14:21	1
2,4,6-Tribromophenol	73		35 - 137	02/11/16 07:23	02/18/16 14:21	1
Terphenyl-d14	193	X	36 - 134	02/11/16 07:23	02/18/16 14:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Arsenic	5.3		0.61	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Barium	44		0.61	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Beryllium	0.54		0.24	0.053	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Boron	16		3.1	0.43	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Calcium	73000	B	120	39	mg/Kg	☼	02/13/16 13:20	02/16/16 01:11	10
Chromium	18	B	0.61	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Cobalt	12		0.31	0.069	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Copper	22		0.61	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Iron	17000	B	12	4.7	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Lead	12		0.31	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Magnesium	33000	B	6.1	2.5	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Manganese	320		0.61	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Nickel	31		0.61	0.17	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Potassium	2900		31	5.0	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Sodium	460		61	8.1	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Vanadium	20		0.31	0.089	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1
Zinc	71		1.2	0.39	mg/Kg	☼	02/13/16 13:20	02/15/16 20:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.81		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:26	1
Boron	1.9	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 13:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:26	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:26	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 12:56	02/15/16 13:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 13:26	1
Manganese	1.7		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:26	1
Nickel	0.042		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:26	1
Selenium	0.023	J	0.050	0.020	mg/L		02/13/16 12:56	02/15/16 13:26	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:26	1
Zinc	0.42	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 13:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 01:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:18	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0095	mg/Kg	☼	02/14/16 19:45	02/15/16 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			02/12/16 15:12	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
2-Butanone (MEK)	<0.0040 *		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/10/16 17:25	02/17/16 01:26	1
Dibromofluoromethane	107		75 - 120	02/10/16 17:25	02/17/16 01:26	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/10/16 17:25	02/17/16 01:26	1
Toluene-d8 (Surr)	110		75 - 122	02/10/16 17:25	02/17/16 01:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2-Methylnaphthalene	0.030	J	0.040	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Fluorene	0.0073	J	0.040	0.0056	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Phenanthrene	0.074		0.040	0.0056	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Fluoranthene	0.018	J	0.040	0.0074	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Pyrene	0.060		0.040	0.0079	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Benzo[a]anthracene	0.013	J	0.040	0.0054	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.037	J	0.040	0.011	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:23	02/18/16 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		25 - 110	02/11/16 07:23	02/18/16 14:45	1
Phenol-d5	104		31 - 110	02/11/16 07:23	02/18/16 14:45	1
Nitrobenzene-d5	88		25 - 115	02/11/16 07:23	02/18/16 14:45	1
2-Fluorobiphenyl	86		25 - 119	02/11/16 07:23	02/18/16 14:45	1
2,4,6-Tribromophenol	63		35 - 137	02/11/16 07:23	02/18/16 14:45	1
Terphenyl-d14	185	X	36 - 134	02/11/16 07:23	02/18/16 14:45	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Arsenic	4.7		0.60	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Barium	44		0.60	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Beryllium	0.50		0.24	0.052	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Boron	14		3.0	0.42	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Calcium	75000	B	120	39	mg/Kg	☼	02/13/16 13:20	02/16/16 01:15	10
Chromium	16	B	0.60	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Cobalt	10		0.30	0.068	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Copper	20		0.60	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Iron	15000	B	12	4.6	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Lead	13		0.30	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Magnesium	32000	B	6.0	2.4	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Manganese	280		0.60	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Nickel	27		0.60	0.16	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Potassium	2400		30	4.9	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Selenium	<0.60		0.60	0.30	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Sodium	500		60	8.0	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Vanadium	18		0.30	0.088	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1
Zinc	50		1.2	0.38	mg/Kg	☼	02/13/16 13:20	02/15/16 20:36	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.87		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:31	1
Boron	2.6	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 13:31	1
Chromium	0.011	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:31	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:31	1
Iron	0.69		0.40	0.20	mg/L		02/13/16 12:56	02/15/16 13:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 13:31	1
Manganese	1.8		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:31	1
Nickel	0.036		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:31	1
Selenium	0.020	J	0.050	0.020	mg/L		02/13/16 12:56	02/15/16 13:31	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:31	1
Zinc	0.28	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 13:31	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 10:35	02/17/16 01:40	1
Manganese	0.042		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 01:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:30	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0092	mg/Kg	☼	02/14/16 19:45	02/15/16 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.20		0.200	0.200	SU			02/12/16 15:16	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
2-Butanone (MEK)	<0.0041	*	0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/10/16 17:25	02/17/16 01:52	1
Dibromofluoromethane	108		75 - 120	02/10/16 17:25	02/17/16 01:52	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/10/16 17:25	02/17/16 01:52	1
Toluene-d8 (Surr)	112		75 - 122	02/10/16 17:25	02/17/16 01:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Naphthalene	0.0060	J	0.038	0.0059	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2-Methylnaphthalene	0.024	J	0.038	0.0070	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Acenaphthene	0.0075	J	0.038	0.0069	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Fluorene	0.013	J	0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Phenanthrene	0.053		0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Fluoranthene	0.017	J	0.038	0.0071	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Pyrene	0.070		0.038	0.0076	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.049		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/19/16 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		25 - 110	02/11/16 07:23	02/19/16 21:08	1
Phenol-d5	112	X	31 - 110	02/11/16 07:23	02/19/16 21:08	1
Nitrobenzene-d5	98		25 - 115	02/11/16 07:23	02/19/16 21:08	1
2-Fluorobiphenyl	91		25 - 119	02/11/16 07:23	02/19/16 21:08	1
2,4,6-Tribromophenol	79		35 - 137	02/11/16 07:23	02/19/16 21:08	1
Terphenyl-d14	231	X	36 - 134	02/11/16 07:23	02/19/16 21:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Arsenic	7.6		0.59	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Barium	42		0.59	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Beryllium	0.57		0.24	0.051	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Boron	13		2.9	0.41	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Calcium	71000	B	120	38	mg/Kg	☼	02/13/16 13:20	02/16/16 01:20	10
Chromium	17	B	0.59	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Cobalt	13		0.29	0.067	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Copper	23		0.59	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Lead	19		0.29	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Magnesium	31000	B	5.9	2.4	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Manganese	380		0.59	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Nickel	34		0.59	0.16	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Potassium	2700		29	4.8	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Selenium	0.33	J	0.59	0.29	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Sodium	500		59	7.8	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Vanadium	19		0.29	0.086	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1
Zinc	52		1.2	0.37	mg/Kg	☼	02/13/16 13:20	02/15/16 20:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.83		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:36	1
Boron	1.2	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Cobalt	0.012	J	0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Iron	0.20	J	0.40	0.20	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Manganese	1.9		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Nickel	0.037		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Selenium	0.023	J	0.050	0.020	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:36	1
Zinc	0.53	B	0.50	0.020	mg/L	-	02/13/16 12:56	02/15/16 13:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.036		0.025	0.010	mg/L	-	02/13/16 10:35	02/17/16 01:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 12:56	02/15/16 16:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 12:56	02/15/16 16:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0092	mg/Kg	☼	02/14/16 19:45	02/15/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93		0.200	0.200	SU	-		02/12/16 15:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/10/16 17:25	02/17/16 12:36	1
Dibromofluoromethane	97		75 - 120	02/10/16 17:25	02/17/16 12:36	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/10/16 17:25	02/17/16 12:36	1
Toluene-d8 (Surr)	106		75 - 122	02/10/16 17:25	02/17/16 12:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Naphthalene	0.033	J	0.038	0.0058	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2-Methylnaphthalene	0.11		0.038	0.0069	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Acenaphthylene	0.0058	J	0.038	0.0050	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Fluorene	0.0063	J	0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Phenanthrene	0.084		0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Fluoranthene	0.037	J	0.038	0.0070	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Pyrene	0.099		0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Benzo[a]anthracene	0.027	J	0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.052		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Benzo[b]fluoranthene	0.051		0.038	0.0082	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Benzo[k]fluoranthene	0.018 J		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Benzo[a]pyrene	0.045		0.038	0.0073	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:23	02/19/16 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	96		25 - 110	02/11/16 07:23	02/19/16 21:33	1
Phenol-d5	103		31 - 110	02/11/16 07:23	02/19/16 21:33	1
Nitrobenzene-d5	83		25 - 115	02/11/16 07:23	02/19/16 21:33	1
2-Fluorobiphenyl	84		25 - 119	02/11/16 07:23	02/19/16 21:33	1
2,4,6-Tribromophenol	73		35 - 137	02/11/16 07:23	02/19/16 21:33	1
Terphenyl-d14	203 X		36 - 134	02/11/16 07:23	02/19/16 21:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Arsenic	5.8		0.56	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Barium	39		0.56	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Beryllium	0.51		0.23	0.049	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Boron	12		2.8	0.39	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Calcium	60000 B		110	36	mg/Kg	☼	02/13/16 13:20	02/16/16 17:31	10
Chromium	17 B		0.56	0.097	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Cobalt	12		0.28	0.064	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Copper	25		0.56	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Iron	17000 B		11	4.4	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Lead	19		0.28	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Magnesium	29000 B		5.6	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Manganese	300		0.56	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Nickel	31		0.56	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Potassium	2300		28	4.6	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Sodium	270		56	7.4	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Thallium	0.29 J		0.56	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Vanadium	16		0.28	0.082	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1
Zinc	49		1.1	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 20:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.66		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:41	1
Boron	1.3 B		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 85.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 13:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:41	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:41	1
Iron	0.23	J	0.40	0.20	mg/L		02/13/16 12:56	02/15/16 13:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 13:41	1
Manganese	1.9		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:41	1
Nickel	0.052		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 12:56	02/15/16 13:41	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:41	1
Zinc	0.19	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 13:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.036		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 01:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0094	mg/Kg	☼	02/14/16 19:45	02/15/16 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			02/12/16 15:25	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Date Collected: 02/09/16 11:32

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/10/16 17:25	02/17/16 13:01	1
Dibromofluoromethane	95		75 - 120	02/10/16 17:25	02/17/16 13:01	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/10/16 17:25	02/17/16 13:01	1
Toluene-d8 (Surr)	105		75 - 122	02/10/16 17:25	02/17/16 13:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Date Collected: 02/09/16 11:32

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Naphthalene	0.025	J	0.039	0.0061	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2-Methylnaphthalene	0.073		0.039	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Fluorene	0.0072	J	0.039	0.0056	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Pentachlorophenol	<0.80		0.80	0.63	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Phenanthrene	0.074		0.039	0.0055	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Fluoranthene	0.016	J	0.039	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Pyrene	0.055		0.039	0.0079	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Benzo[a]anthracene	0.012	J	0.039	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Date Collected: 02/09/16 11:32

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.038	J	0.039	0.011	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/11/16 07:23	02/18/16 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		25 - 110	02/11/16 07:23	02/18/16 15:58	1
Phenol-d5	103		31 - 110	02/11/16 07:23	02/18/16 15:58	1
Nitrobenzene-d5	86		25 - 115	02/11/16 07:23	02/18/16 15:58	1
2-Fluorobiphenyl	88		25 - 119	02/11/16 07:23	02/18/16 15:58	1
2,4,6-Tribromophenol	70		35 - 137	02/11/16 07:23	02/18/16 15:58	1
Terphenyl-d14	195	X	36 - 134	02/11/16 07:23	02/18/16 15:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Arsenic	6.3		0.56	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Barium	45		0.56	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Beryllium	0.54		0.22	0.049	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Boron	11		2.8	0.39	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Calcium	67000	B	110	36	mg/Kg	☼	02/13/16 13:20	02/16/16 17:35	10
Chromium	17	B	0.56	0.097	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Cobalt	12		0.28	0.063	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Copper	25		0.56	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Iron	17000	B	11	4.3	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Lead	17		0.28	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Magnesium	27000	B	5.6	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Manganese	330		0.56	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Nickel	33		0.56	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Potassium	2300		28	4.6	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Sodium	580		56	7.4	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Vanadium	18		0.28	0.082	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1
Zinc	53		1.1	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 21:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.75		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:47	1
Boron	1.7	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Date Collected: 02/09/16 11:32

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 13:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:47	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:47	1
Iron	0.37	J	0.40	0.20	mg/L		02/13/16 12:56	02/15/16 13:47	1
Lead	0.0080		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 13:47	1
Manganese	1.7		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:47	1
Nickel	0.047		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:47	1
Selenium	0.023	J	0.050	0.020	mg/L		02/13/16 12:56	02/15/16 13:47	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 13:47	1
Zinc	0.25	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 13:47	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0090		0.0075	0.0075	mg/L		02/18/16 10:15	02/18/16 13:30	1
Manganese	0.17		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 02:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0095	mg/Kg	☼	02/14/16 19:45	02/15/16 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.80		0.200	0.200	SU			02/12/16 15:29	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Bromodichloromethane	<0.0048		0.0048	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Bromoform	<0.0048		0.0048	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Chloroethane	<0.0048	*	0.0048	0.0020	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Chloroform	<0.0048		0.0048	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Chloromethane	<0.0048		0.0048	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,1-Dichloroethane	<0.0048		0.0048	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,1-Dichloroethene	<0.0048		0.0048	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,2-Dichloropropane	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Tetrachloroethene	<0.0048		0.0048	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1
Xylenes, Total	<0.0096		0.0096	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/10/16 17:25	02/17/16 13:27	1
Dibromofluoromethane	95		75 - 120	02/10/16 17:25	02/17/16 13:27	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/10/16 17:25	02/17/16 13:27	1
Toluene-d8 (Surr)	105		75 - 122	02/10/16 17:25	02/17/16 13:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2-Methylnaphthalene	0.011	J	0.038	0.0071	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Phenanthrene	0.076		0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Anthracene	0.015	J	0.038	0.0065	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Fluoranthene	0.091		0.038	0.0072	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Pyrene	0.25		0.038	0.0077	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Benzo[a]anthracene	0.076		0.038	0.0052	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Benzo[k]fluoranthene	0.17		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Benzo[a]pyrene	0.094		0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/19/16 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		25 - 110	02/11/16 07:23	02/19/16 23:35	1
Phenol-d5	89		31 - 110	02/11/16 07:23	02/19/16 23:35	1
Nitrobenzene-d5	72		25 - 115	02/11/16 07:23	02/19/16 23:35	1
2-Fluorobiphenyl	75		25 - 119	02/11/16 07:23	02/19/16 23:35	1
2,4,6-Tribromophenol	70		35 - 137	02/11/16 07:23	02/19/16 23:35	1
Terphenyl-d14	190	X	36 - 134	02/11/16 07:23	02/19/16 23:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Arsenic	6.4		0.58	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Barium	40		0.58	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Beryllium	0.51		0.23	0.051	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Boron	13		2.9	0.41	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Calcium	69000	B	120	38	mg/Kg	☼	02/13/16 13:20	02/16/16 17:39	10
Chromium	17	B	0.58	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Cobalt	11		0.29	0.066	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Copper	24		0.58	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Lead	15		0.29	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Magnesium	30000	B	5.8	2.4	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Manganese	390		0.58	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Nickel	32		0.58	0.16	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Potassium	2600		29	4.8	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Selenium	0.36	J	0.58	0.29	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Sodium	800		58	7.7	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Vanadium	18		0.29	0.085	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1
Zinc	53		1.2	0.37	mg/Kg	☼	02/13/16 13:20	02/15/16 21:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:52	1
Boron	1.5	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Cobalt	0.030		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Lead	0.010		0.0075	0.0075	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Manganese	2.2		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Nickel	0.065		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:52	1
Zinc	0.21	J B	0.50	0.020	mg/L	-	02/13/16 12:56	02/15/16 13:52	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.011		0.0075	0.0075	mg/L	-	02/18/16 10:15	02/18/16 13:36	1
Manganese	0.27		0.025	0.010	mg/L	-	02/13/16 10:35	02/17/16 02:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 12:56	02/15/16 16:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 12:56	02/15/16 16:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.019	0.010	mg/Kg	☼	02/14/16 19:45	02/15/16 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU	-		02/12/16 15:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Chloroethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Styrene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/10/16 17:25	02/17/16 13:52	1
Dibromofluoromethane	98		75 - 120	02/10/16 17:25	02/17/16 13:52	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/10/16 17:25	02/17/16 13:52	1
Toluene-d8 (Surr)	108		75 - 122	02/10/16 17:25	02/17/16 13:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.082	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2-Methylnaphthalene	0.046		0.037	0.0068	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.12	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Acenaphthylene	<0.037		0.037	0.0048	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Acenaphthene	0.0071	J	0.037	0.0066	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Phenanthrene	0.10		0.037	0.0051	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Anthracene	<0.037		0.037	0.0061	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Carbazole	<0.18		0.18	0.092	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Pyrene	0.021	J	0.037	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Benzo[a]anthracene	<0.037		0.037	0.0049	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.024	J	0.037	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Benzo[b]fluoranthene	<0.037		0.037	0.0079	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	101		25 - 110	02/11/16 07:23	02/18/16 16:22	1
Phenol-d5	105		31 - 110	02/11/16 07:23	02/18/16 16:22	1
Nitrobenzene-d5	88		25 - 115	02/11/16 07:23	02/18/16 16:22	1
2-Fluorobiphenyl	87		25 - 119	02/11/16 07:23	02/18/16 16:22	1
2,4,6-Tribromophenol	53		35 - 137	02/11/16 07:23	02/18/16 16:22	1
Terphenyl-d14	185	X	36 - 134	02/11/16 07:23	02/18/16 16:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Arsenic	8.0		0.52	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Barium	20		0.52	0.094	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Beryllium	0.37		0.21	0.045	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Boron	8.9		2.6	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Cadmium	0.28		0.10	0.030	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Calcium	89000	B	100	33	mg/Kg	☼	02/13/16 13:20	02/16/16 17:43	10
Chromium	9.5	B	0.52	0.089	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Cobalt	12		0.26	0.058	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Copper	29		0.52	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Iron	16000	B	10	4.0	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Lead	15		0.26	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Magnesium	40000	B	5.2	2.1	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Manganese	560		0.52	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Nickel	31		0.52	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Potassium	1600		26	4.2	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Selenium	0.69		0.52	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Sodium	290		52	6.8	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Thallium	0.26	J	0.52	0.25	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Vanadium	11		0.26	0.075	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1
Zinc	86		1.0	0.33	mg/Kg	☼	02/13/16 13:20	02/15/16 21:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.23	J	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 13:57	1
Boron	1.7	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 13:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 88.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Cobalt	0.030		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Iron	<0.40		0.40	0.20	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Manganese	1.8		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Nickel	0.070		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Selenium	0.027 J		0.050	0.020	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 13:57	1
Zinc	0.20 J B		0.50	0.020	mg/L	-	02/13/16 12:56	02/15/16 13:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.026		0.025	0.010	mg/L	-	02/13/16 10:35	02/17/16 02:14	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 12:56	02/15/16 16:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 12:56	02/15/16 16:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0095	mg/Kg	☼	02/14/16 19:45	02/15/16 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.60		0.200	0.200	SU	-		02/12/16 15:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Benzene	<0.0039		0.0039	0.00087	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Bromodichloromethane	<0.0039		0.0039	0.00066	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Chlorobenzene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Chloroethane	<0.0039	*	0.0039	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Chloroform	<0.0039		0.0039	0.00076	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Chloromethane	<0.0039		0.0039	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Ethylbenzene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00062	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Tetrachloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00091	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Vinyl acetate	<0.0039		0.0039	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Vinyl chloride	<0.0039		0.0039	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1
Xylenes, Total	<0.0078		0.0078	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/10/16 17:25	02/17/16 14:18	1
Dibromofluoromethane	98		75 - 120	02/10/16 17:25	02/17/16 14:18	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/10/16 17:25	02/17/16 14:18	1
Toluene-d8 (Surr)	106		75 - 122	02/10/16 17:25	02/17/16 14:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Naphthalene	0.0091	J	0.038	0.0058	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2-Methylnaphthalene	0.039		0.038	0.0070	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Phenanthrene	0.068		0.038	0.0053	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Fluoranthene	0.023	J	0.038	0.0070	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Pyrene	0.18		0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Benzo[a]anthracene	0.019	J	0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.072		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Benzo[b]fluoranthene	0.059		0.038	0.0082	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Benzo[k]fluoranthene	0.034 J		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Benzo[a]pyrene	0.053		0.038	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:23	02/18/16 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		25 - 110	02/11/16 07:23	02/18/16 16:47	1
Phenol-d5	110		31 - 110	02/11/16 07:23	02/18/16 16:47	1
Nitrobenzene-d5	88		25 - 115	02/11/16 07:23	02/18/16 16:47	1
2-Fluorobiphenyl	92		25 - 119	02/11/16 07:23	02/18/16 16:47	1
2,4,6-Tribromophenol	61		35 - 137	02/11/16 07:23	02/18/16 16:47	1
Terphenyl-d14	208 X		36 - 134	02/11/16 07:23	02/18/16 16:47	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Arsenic	5.3		0.54	0.25	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Barium	28		0.54	0.099	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Beryllium	0.42		0.22	0.047	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Boron	13		2.7	0.38	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Calcium	120000 B		110	35	mg/Kg	☼	02/13/16 13:20	02/16/16 17:47	10
Chromium	12 B		0.54	0.093	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Cobalt	9.7		0.27	0.061	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Copper	18		0.54	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Iron	12000 B		11	4.2	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Lead	12		0.27	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Magnesium	53000 B		5.4	2.2	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Manganese	260		0.54	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Nickel	26		0.54	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Potassium	1900		27	4.4	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Sodium	340		54	7.1	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Thallium	0.64		0.54	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Vanadium	18		0.27	0.079	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1
Zinc	34		1.1	0.34	mg/Kg	☼	02/13/16 13:20	02/15/16 21:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 14:02	1
Boron	1.9 B		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 14:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:02	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:02	1
Iron	0.20	J	0.40	0.20	mg/L		02/13/16 12:56	02/15/16 14:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 14:02	1
Manganese	1.6		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:02	1
Nickel	0.030		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 12:56	02/15/16 14:02	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:02	1
Zinc	0.16	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 14:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.017	J	0.025	0.010	mg/L		02/13/16 10:35	02/17/16 02:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0092	mg/Kg	☼	02/14/16 19:45	02/15/16 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			02/12/16 15:42	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
2-Butanone (MEK)	<0.0040 *		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/10/16 17:25	02/17/16 04:21	1
Dibromofluoromethane	110		75 - 120	02/10/16 17:25	02/17/16 04:21	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	02/10/16 17:25	02/17/16 04:21	1
Toluene-d8 (Surr)	111		75 - 122	02/10/16 17:25	02/17/16 04:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2-Methylnaphthalene	0.0093	J	0.036	0.0067	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Fluorene	0.0076	J	0.036	0.0051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Phenanthrene	0.042		0.036	0.0051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Anthracene	0.0097	J	0.036	0.0061	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Fluoranthene	0.045		0.036	0.0068	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Pyrene	0.38		0.036	0.0072	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Benzo[a]anthracene	0.048		0.036	0.0049	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.19		0.036	0.0099	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Benzo[b]fluoranthene	0.16		0.036	0.0079	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Benzo[k]fluoranthene	0.050		0.036	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Benzo[a]pyrene	0.13		0.036	0.0070	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		25 - 110	02/11/16 07:23	02/19/16 23:59	1
Phenol-d5	93		31 - 110	02/11/16 07:23	02/19/16 23:59	1
Nitrobenzene-d5	76		25 - 115	02/11/16 07:23	02/19/16 23:59	1
2-Fluorobiphenyl	84		25 - 119	02/11/16 07:23	02/19/16 23:59	1
2,4,6-Tribromophenol	58		35 - 137	02/11/16 07:23	02/19/16 23:59	1
Terphenyl-d14	158	X	36 - 134	02/11/16 07:23	02/19/16 23:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Arsenic	4.3		0.52	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Barium	30		0.52	0.095	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Beryllium	0.41		0.21	0.045	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Boron	12		2.6	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Calcium	82000	B	100	34	mg/Kg	☼	02/13/16 13:20	02/16/16 17:51	10
Chromium	12	B	0.52	0.090	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Cobalt	8.8		0.26	0.059	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Copper	18		0.52	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Iron	12000	B	10	4.0	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Lead	14		0.26	0.13	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Magnesium	40000	B	5.2	2.1	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Manganese	270		0.52	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Nickel	24		0.52	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Potassium	2000		26	4.2	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Sodium	980		52	6.9	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Thallium	0.42	J	0.52	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Vanadium	17		0.26	0.076	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1
Zinc	34		1.0	0.33	mg/Kg	☼	02/13/16 13:20	02/15/16 21:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 14:08	1
Boron	2.0	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 90.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 14:08	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:08	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:08	1
Iron	0.42		0.40	0.20	mg/L		02/13/16 12:56	02/15/16 14:08	1
Lead	0.0091		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 14:08	1
Manganese	1.3		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:08	1
Nickel	0.022	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:08	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 12:56	02/15/16 14:08	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:08	1
Zinc	0.35	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 14:08	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1	J B	2.0	0.050	mg/L		02/13/16 10:35	02/17/16 02:27	1
Lead	0.053		0.0075	0.0075	mg/L		02/18/16 10:15	02/18/16 13:43	1
Manganese	0.84		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 02:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 16:59	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 16:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.016	0.0085	mg/Kg	☼	02/14/16 19:45	02/15/16 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.92		0.200	0.200	SU			02/12/16 15:47	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Date Collected: 02/09/16 13:22

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/10/16 17:25	02/17/16 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/10/16 17:25	02/17/16 14:44	1
Dibromofluoromethane	98		75 - 120	02/10/16 17:25	02/17/16 14:44	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/10/16 17:25	02/17/16 14:44	1
Toluene-d8 (Surr)	107		75 - 122	02/10/16 17:25	02/17/16 14:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Date Collected: 02/09/16 13:22

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Naphthalene	0.011	J	0.038	0.0059	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2-Methylnaphthalene	0.068		0.038	0.0071	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Acenaphthene	0.011	J	0.038	0.0069	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Fluorene	0.017	J	0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Phenanthrene	0.093		0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Anthracene	0.011	J	0.038	0.0064	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Fluoranthene	0.036	J	0.038	0.0071	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Pyrene	0.29		0.038	0.0076	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Benzo[a]anthracene	0.031	J	0.038	0.0052	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Date Collected: 02/09/16 13:22

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.16		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Benzo[b]fluoranthene	0.17		0.038	0.0083	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Benzo[k]fluoranthene	0.052		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/20/16 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	94		25 - 110	02/11/16 07:23	02/20/16 00:24	1
Phenol-d5	100		31 - 110	02/11/16 07:23	02/20/16 00:24	1
Nitrobenzene-d5	83		25 - 115	02/11/16 07:23	02/20/16 00:24	1
2-Fluorobiphenyl	92		25 - 119	02/11/16 07:23	02/20/16 00:24	1
2,4,6-Tribromophenol	61		35 - 137	02/11/16 07:23	02/20/16 00:24	1
Terphenyl-d14	163	X	36 - 134	02/11/16 07:23	02/20/16 00:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Arsenic	6.4		0.57	0.26	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Barium	37		0.57	0.10	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Beryllium	0.52		0.23	0.050	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Boron	13		2.9	0.40	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Calcium	85000	B	110	37	mg/Kg	☼	02/13/16 13:20	02/16/16 17:56	10
Chromium	16	B	0.57	0.098	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Cobalt	11		0.29	0.065	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Copper	21		0.57	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Iron	16000	B	11	4.4	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Lead	12		0.29	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Magnesium	38000	B	5.7	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Manganese	340		0.57	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Nickel	29		0.57	0.15	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Potassium	2500		29	4.7	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Selenium	0.45	J	0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Sodium	420		57	7.5	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Thallium	0.56	J	0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Vanadium	18		0.29	0.083	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1
Zinc	42		1.1	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 21:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 14:13	1
Boron	1.8	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Date Collected: 02/09/16 13:22

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.012		0.0050	0.0020	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Cobalt	0.012	J	0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Iron	0.22	J	0.40	0.20	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Lead	0.0092		0.0075	0.0075	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Manganese	1.6		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Nickel	0.033		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Selenium	0.025	J	0.050	0.020	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Silver	<0.025		0.025	0.010	mg/L	-	02/13/16 12:56	02/15/16 14:13	1
Zinc	0.48	J B	0.50	0.020	mg/L	-	02/13/16 12:56	02/15/16 14:13	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/13/16 10:35	02/17/16 02:34	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/13/16 10:35	02/17/16 02:34	1
Manganese	0.048		0.025	0.010	mg/L	-	02/13/16 10:35	02/17/16 02:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/13/16 12:56	02/15/16 17:03	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/13/16 12:56	02/15/16 17:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/12/16 15:50	02/14/16 16:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0099	mg/Kg	☼	02/14/16 19:45	02/15/16 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU	-		02/12/16 15:55	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
2-Butanone (MEK)	<0.0040 *		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/10/16 17:25	02/17/16 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/10/16 17:25	02/17/16 05:12	1
Dibromofluoromethane	107		75 - 120	02/10/16 17:25	02/17/16 05:12	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/10/16 17:25	02/17/16 05:12	1
Toluene-d8 (Surr)	110		75 - 122	02/10/16 17:25	02/17/16 05:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Naphthalene	0.034	J	0.038	0.0059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2-Methylnaphthalene	0.089		0.038	0.0071	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Fluorene	0.010	J	0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Phenanthrene	0.096		0.038	0.0054	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Anthracene	0.0085	J	0.038	0.0064	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Fluoranthene	0.028	J	0.038	0.0072	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Pyrene	0.12		0.038	0.0077	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Benzo[a]anthracene	0.020	J	0.038	0.0052	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.059		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/11/16 07:23	02/19/16 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		25 - 110	02/11/16 07:23	02/19/16 23:10	1
Phenol-d5	91		31 - 110	02/11/16 07:23	02/19/16 23:10	1
Nitrobenzene-d5	75		25 - 115	02/11/16 07:23	02/19/16 23:10	1
2-Fluorobiphenyl	75		25 - 119	02/11/16 07:23	02/19/16 23:10	1
2,4,6-Tribromophenol	65		35 - 137	02/11/16 07:23	02/19/16 23:10	1
Terphenyl-d14	189	X	36 - 134	02/11/16 07:23	02/19/16 23:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Arsenic	9.4		0.57	0.27	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Barium	31		0.57	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Beryllium	0.53		0.23	0.050	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Boron	13		2.9	0.40	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Calcium	66000	B	110	37	mg/Kg	☼	02/13/16 13:20	02/16/16 18:00	10
Chromium	17	B	0.57	0.099	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Cobalt	14		0.29	0.065	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Copper	24		0.57	0.12	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Iron	17000	B	11	4.4	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Lead	13		0.29	0.14	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Magnesium	29000	B	5.7	2.3	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Manganese	380		0.57	0.11	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Nickel	34		0.57	0.16	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Potassium	2600		29	4.7	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Sodium	1000		57	7.6	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Thallium	0.62		0.57	0.28	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Vanadium	18		0.29	0.084	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1
Zinc	82		1.1	0.36	mg/Kg	☼	02/13/16 13:20	02/15/16 21:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 12:56	02/15/16 14:32	1
Boron	2.0	B	0.50	0.050	mg/L		02/13/16 12:56	02/15/16 14:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 12:56	02/15/16 14:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:32	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:32	1
Iron	<0.40		0.40	0.20	mg/L		02/13/16 12:56	02/15/16 14:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 12:56	02/15/16 14:32	1
Manganese	1.7		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:32	1
Nickel	0.035		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 12:56	02/15/16 14:32	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 12:56	02/15/16 14:32	1
Zinc	0.22	J B	0.50	0.020	mg/L		02/13/16 12:56	02/15/16 14:32	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.93	J B	2.0	0.050	mg/L		02/13/16 10:35	02/17/16 02:57	1
Manganese	0.40		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 02:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 12:56	02/15/16 17:07	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 12:56	02/15/16 17:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 17:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0094	mg/Kg	☼	02/14/16 19:45	02/15/16 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		0.200	0.200	SU			02/12/16 15:59	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

GC/MS VOA

Prep Batch: 322942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	5035	
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	5035	
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	5035	
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	5035	
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	5035	
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	5035	
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	5035	
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	5035	
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	5035	
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	5035	
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	5035	
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	5035	
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	5035	
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	5035	
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	5035	
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	5035	
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	5035	
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	5035	
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	5035	
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	5035	
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	5035	
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	5035	
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	5035	
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	5035	
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	5035	
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	5035	
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	5035	
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	5035	
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	5035	
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	5035	
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	5035	
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	5035	

Analysis Batch: 323039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	8260B	322942
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	8260B	322942
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	8260B	322942
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	8260B	322942
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	8260B	322942
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	8260B	322942
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	8260B	322942
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	8260B	322942
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	8260B	322942
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	8260B	322942
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	8260B	322942
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	8260B	322942
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	8260B	322942
LCS 500-323039/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323039/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323039/6	Method Blank	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Analysis Batch: 323064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	8260B	322942
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	8260B	322942
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	8260B	322942
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	8260B	322942
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	8260B	322942
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	8260B	322942
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	8260B	322942
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	8260B	322942
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	8260B	322942
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	8260B	322942
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	8260B	322942
LCS 500-323064/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323064/28	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323064/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 323152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	8260B	322942
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	8260B	322942
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	8260B	322942
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	8260B	322942
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	8260B	322942
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	8260B	322942
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	8260B	322942
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	8260B	322942
LCS 500-323152/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323152/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323152/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 322405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	3541	
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	3541	
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	3541	
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	3541	
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	3541	
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	3541	
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	3541	
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	3541	
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	3541	
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	3541	
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	3541	
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	3541	
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	3541	
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	3541	
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	3541	
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	3541	
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	3541	
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	3541	
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	3541	
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

GC/MS Semi VOA (Continued)

Prep Batch: 322405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	3541	
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	3541	
LCS 500-322405/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322405/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 322406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	3541	
500-107399-21 MS	2746-01-B98 (0-8)	Total/NA	Solid	3541	
500-107399-21 MSD	2746-01-B98 (0-8)	Total/NA	Solid	3541	
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	3541	
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	3541	
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	3541	
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	3541	
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	3541	
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	3541	
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	3541	
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	3541	
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	3541	
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	3541	
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	3541	
LCS 500-322406/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322406/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 322830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322406/2-A	Lab Control Sample	Total/NA	Solid	8270D	322406
MB 500-322406/1-A	Method Blank	Total/NA	Solid	8270D	322406

Analysis Batch: 323350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	8270D	322406
500-107399-21 MS	2746-01-B98 (0-8)	Total/NA	Solid	8270D	322406
500-107399-21 MSD	2746-01-B98 (0-8)	Total/NA	Solid	8270D	322406
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	8270D	322406
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	8270D	322406
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	8270D	322406
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	8270D	322406
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	8270D	322406

Analysis Batch: 323446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	8270D	322405
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	8270D	322405
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	8270D	322405
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	8270D	322405
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	8270D	322405
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	8270D	322405
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	8270D	322405
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	8270D	322405
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	8270D	322405

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

GC/MS Semi VOA (Continued)

Analysis Batch: 323446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	8270D	322405
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	8270D	322405
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	8270D	322405
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	8270D	322405
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	8270D	322405
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	8270D	322405
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	8270D	322405
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	8270D	322405
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	8270D	322405
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	8270D	322405
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	8270D	322405
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	8270D	322405
LCS 500-322405/2-A	Lab Control Sample	Total/NA	Solid	8270D	322405
MB 500-322405/1-A	Method Blank	Total/NA	Solid	8270D	322405

Analysis Batch: 323575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	8270D	322406
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	8270D	322406
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	8270D	322406
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	8270D	322406
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	8270D	322406
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	8270D	322406

Analysis Batch: 323785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	8270D	322405

Metals

Leach Batch: 322498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	TCLP	Solid	1311	
500-107399-2	2746-01-B35 (0-8)	TCLP	Solid	1311	
500-107399-2 DU	2746-01-B35 (0-8)	TCLP	Solid	1311	
500-107399-2 MS	2746-01-B35 (0-8)	TCLP	Solid	1311	
500-107399-3	2746-01-B34 (0-8)	TCLP	Solid	1311	
500-107399-4	2746-01-B33 (0-8)	TCLP	Solid	1311	
500-107399-5	2746-01-B32 (0-8)	TCLP	Solid	1311	
500-107399-6	2746-01-B31 (0-8)	TCLP	Solid	1311	
500-107399-7	2746-01-B30 (0-8)	TCLP	Solid	1311	
500-107399-8	2746-01-B29 (0-7)	TCLP	Solid	1311	
500-107399-9	2746-01-B29 (7-14)	TCLP	Solid	1311	
500-107399-10	2746-01-B29 (14-20)	TCLP	Solid	1311	
500-107399-11	2746-01-B28 (0-8)	TCLP	Solid	1311	
500-107399-12	2746-01-B27 (0-8)	TCLP	Solid	1311	
500-107399-13	2746-01-B26 (0-8)	TCLP	Solid	1311	
500-107399-14	2746-01-B26 (0-8)D	TCLP	Solid	1311	
500-107399-15	2746-01-B24 (0-5)	TCLP	Solid	1311	
500-107399-16	2746-01-B25 (0-7)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Leach Batch: 322498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-17	2746-01-B25 (7-14)	TCLP	Solid	1311	
500-107399-18	2746-01-B25 (14-20)	TCLP	Solid	1311	
500-107399-19	2746-01A-B02 (0-8)	TCLP	Solid	1311	
500-107399-20	2746-01A-B01 (0-8)	TCLP	Solid	1311	
500-107399-20 DU	2746-01A-B01 (0-8)	TCLP	Solid	1311	
500-107399-20 MS	2746-01A-B01 (0-8)	TCLP	Solid	1311	
LB 500-322498/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322498/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	TCLP	Solid	1311	
500-107399-22	2746-01-B99 (0-8)	TCLP	Solid	1311	
500-107399-22 DU	2746-01-B99 (0-8)	TCLP	Solid	1311	
500-107399-22 MS	2746-01-B99 (0-8)	TCLP	Solid	1311	
500-107399-23	2746-01-B100 (0-8)	TCLP	Solid	1311	
500-107399-24	2746-01-B100 (0-8)D	TCLP	Solid	1311	
500-107399-25	2746-01-B101 (0-8)	TCLP	Solid	1311	
500-107399-26	2746-01-B102 (0-8)	TCLP	Solid	1311	
500-107399-27	2746-01-B103 (0-8)	TCLP	Solid	1311	
500-107399-28	2746-01-B104 (0-8)	TCLP	Solid	1311	
500-107399-29	2746-01-B105 (0-8)	TCLP	Solid	1311	
500-107399-30	2746-01-B108 (0-8)	TCLP	Solid	1311	
500-107399-31	2746-01-B107 (0-8)	TCLP	Solid	1311	
500-107399-32	2746-01-B106 (0-8)	TCLP	Solid	1311	
LB 500-322499/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322499/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	SPLP East	Solid	1312	
500-107399-2	2746-01-B35 (0-8)	SPLP East	Solid	1312	
500-107399-4	2746-01-B33 (0-8)	SPLP East	Solid	1312	
500-107399-5	2746-01-B32 (0-8)	SPLP East	Solid	1312	
500-107399-6	2746-01-B31 (0-8)	SPLP East	Solid	1312	
500-107399-7	2746-01-B30 (0-8)	SPLP East	Solid	1312	
500-107399-8	2746-01-B29 (0-7)	SPLP East	Solid	1312	
500-107399-9	2746-01-B29 (7-14)	SPLP East	Solid	1312	
500-107399-10	2746-01-B29 (14-20)	SPLP East	Solid	1312	
500-107399-11	2746-01-B28 (0-8)	SPLP East	Solid	1312	
500-107399-12	2746-01-B27 (0-8)	SPLP East	Solid	1312	
500-107399-13	2746-01-B26 (0-8)	SPLP East	Solid	1312	
500-107399-14	2746-01-B26 (0-8)D	SPLP East	Solid	1312	
500-107399-15	2746-01-B24 (0-5)	SPLP East	Solid	1312	
500-107399-16	2746-01-B25 (0-7)	SPLP East	Solid	1312	
500-107399-17	2746-01-B25 (7-14)	SPLP East	Solid	1312	
500-107399-18	2746-01-B25 (14-20)	SPLP East	Solid	1312	
500-107399-19	2746-01A-B02 (0-8)	SPLP East	Solid	1312	
500-107399-20	2746-01A-B01 (0-8)	SPLP East	Solid	1312	
500-107399-20 DU	2746-01A-B01 (0-8)	SPLP East	Solid	1312	
500-107399-20 MS	2746-01A-B01 (0-8)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Leach Batch: 322502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-322502/1-B	Method Blank	SPLP East	Solid	1312	

Leach Batch: 322503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	SPLP East	Solid	1312	
500-107399-21 DU	2746-01-B98 (0-8)	SPLP East	Solid	1312	
500-107399-21 MS	2746-01-B98 (0-8)	SPLP East	Solid	1312	
500-107399-22	2746-01-B99 (0-8)	SPLP East	Solid	1312	
500-107399-23	2746-01-B100 (0-8)	SPLP East	Solid	1312	
500-107399-24	2746-01-B100 (0-8)D	SPLP East	Solid	1312	
500-107399-25	2746-01-B101 (0-8)	SPLP East	Solid	1312	
500-107399-26	2746-01-B102 (0-8)	SPLP East	Solid	1312	
500-107399-27	2746-01-B103 (0-8)	SPLP East	Solid	1312	
500-107399-28	2746-01-B104 (0-8)	SPLP East	Solid	1312	
500-107399-29	2746-01-B105 (0-8)	SPLP East	Solid	1312	
500-107399-30	2746-01-B108 (0-8)	SPLP East	Solid	1312	
500-107399-31	2746-01-B107 (0-8)	SPLP East	Solid	1312	
500-107399-32	2746-01-B106 (0-8)	SPLP East	Solid	1312	
LB 500-322503/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 322600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	3050B	
500-107399-1 DU	2746-01-B36 (0-8)	Total/NA	Solid	3050B	
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	3050B	
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	3050B	
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	3050B	
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	3050B	
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	3050B	
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	3050B	
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	3050B	
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	3050B	
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	3050B	
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	3050B	
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	3050B	
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	3050B	
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	3050B	
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	3050B	
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	3050B	
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	3050B	
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	3050B	
LCS 500-322600/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322600/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 322652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	TCLP	Solid	7470A	322498
500-107399-2	2746-01-B35 (0-8)	TCLP	Solid	7470A	322498
500-107399-2 DU	2746-01-B35 (0-8)	TCLP	Solid	7470A	322498
500-107399-2 MS	2746-01-B35 (0-8)	TCLP	Solid	7470A	322498
500-107399-3	2746-01-B34 (0-8)	TCLP	Solid	7470A	322498

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Prep Batch: 322652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-4	2746-01-B33 (0-8)	TCLP	Solid	7470A	322498
500-107399-5	2746-01-B32 (0-8)	TCLP	Solid	7470A	322498
500-107399-6	2746-01-B31 (0-8)	TCLP	Solid	7470A	322498
500-107399-7	2746-01-B30 (0-8)	TCLP	Solid	7470A	322498
500-107399-8	2746-01-B29 (0-7)	TCLP	Solid	7470A	322498
500-107399-9	2746-01-B29 (7-14)	TCLP	Solid	7470A	322498
500-107399-10	2746-01-B29 (14-20)	TCLP	Solid	7470A	322498
500-107399-11	2746-01-B28 (0-8)	TCLP	Solid	7470A	322498
500-107399-12	2746-01-B27 (0-8)	TCLP	Solid	7470A	322498
500-107399-13	2746-01-B26 (0-8)	TCLP	Solid	7470A	322498
500-107399-14	2746-01-B26 (0-8)D	TCLP	Solid	7470A	322498
500-107399-15	2746-01-B24 (0-5)	TCLP	Solid	7470A	322498
500-107399-16	2746-01-B25 (0-7)	TCLP	Solid	7470A	322498
500-107399-17	2746-01-B25 (7-14)	TCLP	Solid	7470A	322498
500-107399-18	2746-01-B25 (14-20)	TCLP	Solid	7470A	322498
500-107399-19	2746-01A-B02 (0-8)	TCLP	Solid	7470A	322498
500-107399-20	2746-01A-B01 (0-8)	TCLP	Solid	7470A	322498
LB 500-322498/1-B	Method Blank	TCLP	Solid	7470A	322498
LCS 500-322652/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322652/12-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 322659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	TCLP	Solid	7470A	322499
500-107399-22	2746-01-B99 (0-8)	TCLP	Solid	7470A	322499
500-107399-22 DU	2746-01-B99 (0-8)	TCLP	Solid	7470A	322499
500-107399-22 MS	2746-01-B99 (0-8)	TCLP	Solid	7470A	322499
500-107399-23	2746-01-B100 (0-8)	TCLP	Solid	7470A	322499
500-107399-24	2746-01-B100 (0-8)D	TCLP	Solid	7470A	322499
500-107399-25	2746-01-B101 (0-8)	TCLP	Solid	7470A	322499
500-107399-26	2746-01-B102 (0-8)	TCLP	Solid	7470A	322499
500-107399-27	2746-01-B103 (0-8)	TCLP	Solid	7470A	322499
500-107399-28	2746-01-B104 (0-8)	TCLP	Solid	7470A	322499
500-107399-29	2746-01-B105 (0-8)	TCLP	Solid	7470A	322499
500-107399-30	2746-01-B108 (0-8)	TCLP	Solid	7470A	322499
500-107399-31	2746-01-B107 (0-8)	TCLP	Solid	7470A	322499
500-107399-32	2746-01-B106 (0-8)	TCLP	Solid	7470A	322499
LB 500-322499/1-B	Method Blank	TCLP	Solid	7470A	322499
LCS 500-322659/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322659/12-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 322718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	SPLP East	Solid	3010A	322502
500-107399-2	2746-01-B35 (0-8)	SPLP East	Solid	3010A	322502
500-107399-4	2746-01-B33 (0-8)	SPLP East	Solid	3010A	322502
500-107399-5	2746-01-B32 (0-8)	SPLP East	Solid	3010A	322502
500-107399-6	2746-01-B31 (0-8)	SPLP East	Solid	3010A	322502
500-107399-7	2746-01-B30 (0-8)	SPLP East	Solid	3010A	322502
500-107399-8	2746-01-B29 (0-7)	SPLP East	Solid	3010A	322502
500-107399-9	2746-01-B29 (7-14)	SPLP East	Solid	3010A	322502

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Prep Batch: 322718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-10	2746-01-B29 (14-20)	SPLP East	Solid	3010A	322502
500-107399-11	2746-01-B28 (0-8)	SPLP East	Solid	3010A	322502
500-107399-12	2746-01-B27 (0-8)	SPLP East	Solid	3010A	322502
500-107399-13	2746-01-B26 (0-8)	SPLP East	Solid	3010A	322502
500-107399-14	2746-01-B26 (0-8)D	SPLP East	Solid	3010A	322502
500-107399-15	2746-01-B24 (0-5)	SPLP East	Solid	3010A	322502
500-107399-16	2746-01-B25 (0-7)	SPLP East	Solid	3010A	322502
500-107399-17	2746-01-B25 (7-14)	SPLP East	Solid	3010A	322502
500-107399-18	2746-01-B25 (14-20)	SPLP East	Solid	3010A	322502
500-107399-19	2746-01A-B02 (0-8)	SPLP East	Solid	3010A	322502
500-107399-20	2746-01A-B01 (0-8)	SPLP East	Solid	3010A	322502
500-107399-20 DU	2746-01A-B01 (0-8)	SPLP East	Solid	3010A	322502
500-107399-20 MS	2746-01A-B01 (0-8)	SPLP East	Solid	3010A	322502
LB 500-322502/1-B	Method Blank	SPLP East	Solid	3010A	322502
LCS 500-322718/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	SPLP East	Solid	3010A	322503
500-107399-21 DU	2746-01-B98 (0-8)	SPLP East	Solid	3010A	322503
500-107399-21 MS	2746-01-B98 (0-8)	SPLP East	Solid	3010A	322503
500-107399-22	2746-01-B99 (0-8)	SPLP East	Solid	3010A	322503
500-107399-23	2746-01-B100 (0-8)	SPLP East	Solid	3010A	322503
500-107399-24	2746-01-B100 (0-8)D	SPLP East	Solid	3010A	322503
500-107399-25	2746-01-B101 (0-8)	SPLP East	Solid	3010A	322503
500-107399-26	2746-01-B102 (0-8)	SPLP East	Solid	3010A	322503
500-107399-27	2746-01-B103 (0-8)	SPLP East	Solid	3010A	322503
500-107399-28	2746-01-B104 (0-8)	SPLP East	Solid	3010A	322503
500-107399-29	2746-01-B105 (0-8)	SPLP East	Solid	3010A	322503
500-107399-30	2746-01-B108 (0-8)	SPLP East	Solid	3010A	322503
500-107399-31	2746-01-B107 (0-8)	SPLP East	Solid	3010A	322503
500-107399-32	2746-01-B106 (0-8)	SPLP East	Solid	3010A	322503
LB 500-322503/1-B	Method Blank	SPLP East	Solid	3010A	322503
LCS 500-322719/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	TCLP	Solid	3010A	322499
500-107399-22	2746-01-B99 (0-8)	TCLP	Solid	3010A	322499
500-107399-23	2746-01-B100 (0-8)	TCLP	Solid	3010A	322499
500-107399-24	2746-01-B100 (0-8)D	TCLP	Solid	3010A	322499
500-107399-25	2746-01-B101 (0-8)	TCLP	Solid	3010A	322499
500-107399-26	2746-01-B102 (0-8)	TCLP	Solid	3010A	322499
500-107399-27	2746-01-B103 (0-8)	TCLP	Solid	3010A	322499
500-107399-28	2746-01-B104 (0-8)	TCLP	Solid	3010A	322499
500-107399-29	2746-01-B105 (0-8)	TCLP	Solid	3010A	322499
500-107399-30	2746-01-B108 (0-8)	TCLP	Solid	3010A	322499
500-107399-31	2746-01-B107 (0-8)	TCLP	Solid	3010A	322499
500-107399-32	2746-01-B106 (0-8)	TCLP	Solid	3010A	322499
LB 500-322499/1-C	Method Blank	TCLP	Solid	3010A	322499
LCS 500-322727/27-A	Lab Control Sample	Total/NA	Solid	3010A	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Prep Batch: 322728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	TCLP	Solid	3010A	322498
500-107399-2	2746-01-B35 (0-8)	TCLP	Solid	3010A	322498
500-107399-3	2746-01-B34 (0-8)	TCLP	Solid	3010A	322498
500-107399-4	2746-01-B33 (0-8)	TCLP	Solid	3010A	322498
500-107399-5	2746-01-B32 (0-8)	TCLP	Solid	3010A	322498
500-107399-6	2746-01-B31 (0-8)	TCLP	Solid	3010A	322498
500-107399-7	2746-01-B30 (0-8)	TCLP	Solid	3010A	322498
500-107399-8	2746-01-B29 (0-7)	TCLP	Solid	3010A	322498
500-107399-9	2746-01-B29 (7-14)	TCLP	Solid	3010A	322498
500-107399-10	2746-01-B29 (14-20)	TCLP	Solid	3010A	322498
500-107399-11	2746-01-B28 (0-8)	TCLP	Solid	3010A	322498
500-107399-12	2746-01-B27 (0-8)	TCLP	Solid	3010A	322498
500-107399-13	2746-01-B26 (0-8)	TCLP	Solid	3010A	322498
500-107399-14	2746-01-B26 (0-8)D	TCLP	Solid	3010A	322498
500-107399-15	2746-01-B24 (0-5)	TCLP	Solid	3010A	322498
500-107399-16	2746-01-B25 (0-7)	TCLP	Solid	3010A	322498
500-107399-17	2746-01-B25 (7-14)	TCLP	Solid	3010A	322498
500-107399-18	2746-01-B25 (14-20)	TCLP	Solid	3010A	322498
500-107399-19	2746-01A-B02 (0-8)	TCLP	Solid	3010A	322498
500-107399-20	2746-01A-B01 (0-8)	TCLP	Solid	3010A	322498
500-107399-20 DU	2746-01A-B01 (0-8)	TCLP	Solid	3010A	322498
500-107399-20 MS	2746-01A-B01 (0-8)	TCLP	Solid	3010A	322498
LB 500-322498/1-C	Method Blank	TCLP	Solid	3010A	322498
LCS 500-322728/24-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	3050B	
500-107399-17 DU	2746-01-B25 (7-14)	Total/NA	Solid	3050B	
500-107399-17 MS	2746-01-B25 (7-14)	Total/NA	Solid	3050B	
500-107399-17 MSD	2746-01-B25 (7-14)	Total/NA	Solid	3050B	
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	3050B	
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	3050B	
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	3050B	
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	3050B	
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	3050B	
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	3050B	
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	3050B	
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	3050B	
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	3050B	
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	3050B	
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	3050B	
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	3050B	
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	3050B	
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	3050B	
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	3050B	
LCS 500-322729/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322729/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 322784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	7471B	
500-107399-1 DU	2746-01-B36 (0-8)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Prep Batch: 322784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	7471B	
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	7471B	
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	7471B	
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	7471B	
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	7471B	
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	7471B	
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	7471B	
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	7471B	
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	7471B	
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	7471B	
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	7471B	
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	7471B	
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	7471B	
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	7471B	
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	7471B	
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	7471B	
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	7471B	
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	7471B	
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	7471B	
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	7471B	
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	7471B	
LCS 500-322784/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-322784/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 322785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	7471B	
500-107399-21 DU	2746-01-B98 (0-8)	Total/NA	Solid	7471B	
500-107399-21 MS	2746-01-B98 (0-8)	Total/NA	Solid	7471B	
500-107399-21 MSD	2746-01-B98 (0-8)	Total/NA	Solid	7471B	
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	7471B	
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	7471B	
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	7471B	
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	7471B	
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	7471B	
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	7471B	
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	7471B	
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	7471B	
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	7471B	
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	7471B	
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	7471B	
LCS 500-322785/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-322785/12-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 322866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	TCLP	Solid	7470A	322652
500-107399-2	2746-01-B35 (0-8)	TCLP	Solid	7470A	322652
500-107399-2 DU	2746-01-B35 (0-8)	TCLP	Solid	7470A	322652
500-107399-2 MS	2746-01-B35 (0-8)	TCLP	Solid	7470A	322652
500-107399-3	2746-01-B34 (0-8)	TCLP	Solid	7470A	322652

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 322866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-4	2746-01-B33 (0-8)	TCLP	Solid	7470A	322652
500-107399-5	2746-01-B32 (0-8)	TCLP	Solid	7470A	322652
500-107399-6	2746-01-B31 (0-8)	TCLP	Solid	7470A	322652
500-107399-7	2746-01-B30 (0-8)	TCLP	Solid	7470A	322652
500-107399-8	2746-01-B29 (0-7)	TCLP	Solid	7470A	322652
500-107399-9	2746-01-B29 (7-14)	TCLP	Solid	7470A	322652
500-107399-10	2746-01-B29 (14-20)	TCLP	Solid	7470A	322652
500-107399-11	2746-01-B28 (0-8)	TCLP	Solid	7470A	322652
500-107399-12	2746-01-B27 (0-8)	TCLP	Solid	7470A	322652
500-107399-13	2746-01-B26 (0-8)	TCLP	Solid	7470A	322652
500-107399-14	2746-01-B26 (0-8)D	TCLP	Solid	7470A	322652
500-107399-15	2746-01-B24 (0-5)	TCLP	Solid	7470A	322652
500-107399-16	2746-01-B25 (0-7)	TCLP	Solid	7470A	322652
500-107399-17	2746-01-B25 (7-14)	TCLP	Solid	7470A	322652
500-107399-18	2746-01-B25 (14-20)	TCLP	Solid	7470A	322652
500-107399-19	2746-01A-B02 (0-8)	TCLP	Solid	7470A	322652
500-107399-20	2746-01A-B01 (0-8)	TCLP	Solid	7470A	322652
500-107399-21	2746-01-B98 (0-8)	TCLP	Solid	7470A	322659
500-107399-22	2746-01-B99 (0-8)	TCLP	Solid	7470A	322659
500-107399-22 DU	2746-01-B99 (0-8)	TCLP	Solid	7470A	322659
500-107399-22 MS	2746-01-B99 (0-8)	TCLP	Solid	7470A	322659
500-107399-23	2746-01-B100 (0-8)	TCLP	Solid	7470A	322659
500-107399-24	2746-01-B100 (0-8)D	TCLP	Solid	7470A	322659
500-107399-25	2746-01-B101 (0-8)	TCLP	Solid	7470A	322659
500-107399-26	2746-01-B102 (0-8)	TCLP	Solid	7470A	322659
500-107399-27	2746-01-B103 (0-8)	TCLP	Solid	7470A	322659
500-107399-28	2746-01-B104 (0-8)	TCLP	Solid	7470A	322659
500-107399-29	2746-01-B105 (0-8)	TCLP	Solid	7470A	322659
500-107399-30	2746-01-B108 (0-8)	TCLP	Solid	7470A	322659
500-107399-31	2746-01-B107 (0-8)	TCLP	Solid	7470A	322659
500-107399-32	2746-01-B106 (0-8)	TCLP	Solid	7470A	322659
LB 500-322498/1-B	Method Blank	TCLP	Solid	7470A	322652
LB 500-322499/1-B	Method Blank	TCLP	Solid	7470A	322659
LCS 500-322652/13-A	Lab Control Sample	Total/NA	Solid	7470A	322652
LCS 500-322659/13-A	Lab Control Sample	Total/NA	Solid	7470A	322659
MB 500-322652/12-A	Method Blank	Total/NA	Solid	7470A	322652
MB 500-322659/12-A	Method Blank	Total/NA	Solid	7470A	322659

Analysis Batch: 322907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	7471B	322784
500-107399-1 DU	2746-01-B36 (0-8)	Total/NA	Solid	7471B	322784
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	7471B	322784
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	7471B	322784
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	7471B	322784
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	7471B	322784
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	7471B	322784
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	7471B	322784
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	7471B	322784
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	7471B	322784
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	7471B	322784

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 322907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	7471B	322784
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	7471B	322784
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	7471B	322784
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	7471B	322784
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	7471B	322784
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	7471B	322784
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	7471B	322784
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	7471B	322784
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	7471B	322784
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	7471B	322784
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	7471B	322784
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	7471B	322784
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	7471B	322785
500-107399-21 DU	2746-01-B98 (0-8)	Total/NA	Solid	7471B	322785
500-107399-21 MS	2746-01-B98 (0-8)	Total/NA	Solid	7471B	322785
500-107399-21 MSD	2746-01-B98 (0-8)	Total/NA	Solid	7471B	322785
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	7471B	322785
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	7471B	322785
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	7471B	322785
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	7471B	322785
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	7471B	322785
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	7471B	322785
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	7471B	322785
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	7471B	322785
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	7471B	322785
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	7471B	322785
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	7471B	322785
LCS 500-322784/13-A	Lab Control Sample	Total/NA	Solid	7471B	322784
LCS 500-322785/13-A	Lab Control Sample	Total/NA	Solid	7471B	322785
MB 500-322784/12-A	Method Blank	Total/NA	Solid	7471B	322784
MB 500-322785/12-A	Method Blank	Total/NA	Solid	7471B	322785

Analysis Batch: 322927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	TCLP	Solid	6010B	322727
500-107399-22	2746-01-B99 (0-8)	TCLP	Solid	6010B	322727
500-107399-23	2746-01-B100 (0-8)	TCLP	Solid	6010B	322727
500-107399-24	2746-01-B100 (0-8)D	TCLP	Solid	6010B	322727
500-107399-25	2746-01-B101 (0-8)	TCLP	Solid	6010B	322727
500-107399-26	2746-01-B102 (0-8)	TCLP	Solid	6010B	322727
500-107399-27	2746-01-B103 (0-8)	TCLP	Solid	6010B	322727
500-107399-28	2746-01-B104 (0-8)	TCLP	Solid	6010B	322727
500-107399-29	2746-01-B105 (0-8)	TCLP	Solid	6010B	322727
500-107399-30	2746-01-B108 (0-8)	TCLP	Solid	6010B	322727
500-107399-31	2746-01-B107 (0-8)	TCLP	Solid	6010B	322727
500-107399-32	2746-01-B106 (0-8)	TCLP	Solid	6010B	322727
LB 500-322499/1-C	Method Blank	TCLP	Solid	6010B	322727
LCS 500-322727/27-A	Lab Control Sample	Total/NA	Solid	6010B	322727

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 322995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17 DU	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17 DU	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17 MS	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17 MS	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17 MSD	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-17 MSD	2746-01-B25 (7-14)	Total/NA	Solid	6010B	322729
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	6010B	322729
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	6010B	322729
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	6010B	322729
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	6010B	322729
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	6010B	322729
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	6010B	322729
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	6010B	322729
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	6010B	322729
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	6010B	322729
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	6010B	322729
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	6010B	322729
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	6010B	322729
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	6010B	322729
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	6010B	322729
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	6010B	322729
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	6010B	322729
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	6010B	322729
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	6010B	322729
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	6010B	322729
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	6010B	322729
LCS 500-322729/2-A	Lab Control Sample	Total/NA	Solid	6010B	322729
MB 500-322729/1-A	Method Blank	Total/NA	Solid	6010B	322729

Analysis Batch: 323009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	TCLP	Solid	6020A	322728
500-107399-2	2746-01-B35 (0-8)	TCLP	Solid	6020A	322728
500-107399-3	2746-01-B34 (0-8)	TCLP	Solid	6020A	322728
500-107399-4	2746-01-B33 (0-8)	TCLP	Solid	6020A	322728
500-107399-5	2746-01-B32 (0-8)	TCLP	Solid	6020A	322728
500-107399-6	2746-01-B31 (0-8)	TCLP	Solid	6020A	322728
500-107399-7	2746-01-B30 (0-8)	TCLP	Solid	6020A	322728
500-107399-8	2746-01-B29 (0-7)	TCLP	Solid	6020A	322728
500-107399-9	2746-01-B29 (7-14)	TCLP	Solid	6020A	322728
500-107399-10	2746-01-B29 (14-20)	TCLP	Solid	6020A	322728
500-107399-11	2746-01-B28 (0-8)	TCLP	Solid	6020A	322728
500-107399-12	2746-01-B27 (0-8)	TCLP	Solid	6020A	322728
500-107399-13	2746-01-B26 (0-8)	TCLP	Solid	6020A	322728
500-107399-14	2746-01-B26 (0-8)D	TCLP	Solid	6020A	322728
500-107399-15	2746-01-B24 (0-5)	TCLP	Solid	6020A	322728
500-107399-16	2746-01-B25 (0-7)	TCLP	Solid	6020A	322728
500-107399-17	2746-01-B25 (7-14)	TCLP	Solid	6020A	322728
500-107399-18	2746-01-B25 (14-20)	TCLP	Solid	6020A	322728

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 323009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-19	2746-01A-B02 (0-8)	TCLP	Solid	6020A	322728
500-107399-20	2746-01A-B01 (0-8)	TCLP	Solid	6020A	322728
500-107399-20 DU	2746-01A-B01 (0-8)	TCLP	Solid	6020A	322728
500-107399-20 MS	2746-01A-B01 (0-8)	TCLP	Solid	6020A	322728
500-107399-21	2746-01-B98 (0-8)	TCLP	Solid	6020A	322727
500-107399-22	2746-01-B99 (0-8)	TCLP	Solid	6020A	322727
500-107399-23	2746-01-B100 (0-8)	TCLP	Solid	6020A	322727
500-107399-24	2746-01-B100 (0-8)D	TCLP	Solid	6020A	322727
500-107399-25	2746-01-B101 (0-8)	TCLP	Solid	6020A	322727
500-107399-26	2746-01-B102 (0-8)	TCLP	Solid	6020A	322727
500-107399-27	2746-01-B103 (0-8)	TCLP	Solid	6020A	322727
500-107399-28	2746-01-B104 (0-8)	TCLP	Solid	6020A	322727
500-107399-29	2746-01-B105 (0-8)	TCLP	Solid	6020A	322727
500-107399-30	2746-01-B108 (0-8)	TCLP	Solid	6020A	322727
500-107399-31	2746-01-B107 (0-8)	TCLP	Solid	6020A	322727
500-107399-32	2746-01-B106 (0-8)	TCLP	Solid	6020A	322727
LB 500-322498/1-C	Method Blank	TCLP	Solid	6020A	322728
LB 500-322499/1-C	Method Blank	TCLP	Solid	6020A	322727
LCS 500-322727/27-A	Lab Control Sample	Total/NA	Solid	6020A	322727
LCS 500-322728/24-A	Lab Control Sample	Total/NA	Solid	6020A	322728

Analysis Batch: 323024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	TCLP	Solid	6010B	322728
500-107399-2	2746-01-B35 (0-8)	TCLP	Solid	6010B	322728
500-107399-3	2746-01-B34 (0-8)	TCLP	Solid	6010B	322728
500-107399-4	2746-01-B33 (0-8)	TCLP	Solid	6010B	322728
500-107399-5	2746-01-B32 (0-8)	TCLP	Solid	6010B	322728
500-107399-6	2746-01-B31 (0-8)	TCLP	Solid	6010B	322728
500-107399-7	2746-01-B30 (0-8)	TCLP	Solid	6010B	322728
500-107399-8	2746-01-B29 (0-7)	TCLP	Solid	6010B	322728
500-107399-9	2746-01-B29 (7-14)	TCLP	Solid	6010B	322728
500-107399-10	2746-01-B29 (14-20)	TCLP	Solid	6010B	322728
500-107399-11	2746-01-B28 (0-8)	TCLP	Solid	6010B	322728
500-107399-12	2746-01-B27 (0-8)	TCLP	Solid	6010B	322728
500-107399-13	2746-01-B26 (0-8)	TCLP	Solid	6010B	322728
500-107399-14	2746-01-B26 (0-8)D	TCLP	Solid	6010B	322728
500-107399-15	2746-01-B24 (0-5)	TCLP	Solid	6010B	322728
500-107399-16	2746-01-B25 (0-7)	TCLP	Solid	6010B	322728
500-107399-17	2746-01-B25 (7-14)	TCLP	Solid	6010B	322728
500-107399-18	2746-01-B25 (14-20)	TCLP	Solid	6010B	322728
500-107399-19	2746-01A-B02 (0-8)	TCLP	Solid	6010B	322728
500-107399-20	2746-01A-B01 (0-8)	TCLP	Solid	6010B	322728
500-107399-20 DU	2746-01A-B01 (0-8)	TCLP	Solid	6010B	322728
500-107399-20 MS	2746-01A-B01 (0-8)	TCLP	Solid	6010B	322728
LB 500-322498/1-C	Method Blank	TCLP	Solid	6010B	322728
LCS 500-322728/24-A	Lab Control Sample	Total/NA	Solid	6010B	322728

Analysis Batch: 323046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 323046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-1 DU	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-1 DU	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-1 MS	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-1 MSD	2746-01-B36 (0-8)	Total/NA	Solid	6010B	322600
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	6010B	322600
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	6010B	322600
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	6010B	322600
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	6010B	322600
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	6010B	322600
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	6010B	322600
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	6010B	322600
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	6010B	322600
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	6010B	322600
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	6010B	322600
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	6010B	322600
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	6010B	322600
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	6010B	322600
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	6010B	322600
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	6010B	322600
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	6010B	322600
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	6010B	322600
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	6010B	322600
LCS 500-322600/2-A	Lab Control Sample	Total/NA	Solid	6010B	322600
MB 500-322600/1-A	Method Blank	Total/NA	Solid	6010B	322600

Analysis Batch: 323150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	6010B	322729
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	6010B	322729
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	6010B	322729
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	6010B	322729
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	6010B	322729
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	6010B	322729
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	6010B	322729
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	6010B	322729

Analysis Batch: 323156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	SPLP East	Solid	6010B	322719
500-107399-21 DU	2746-01-B98 (0-8)	SPLP East	Solid	6010B	322719
500-107399-21 MS	2746-01-B98 (0-8)	SPLP East	Solid	6010B	322719
500-107399-22	2746-01-B99 (0-8)	SPLP East	Solid	6010B	322719
500-107399-23	2746-01-B100 (0-8)	SPLP East	Solid	6010B	322719
500-107399-24	2746-01-B100 (0-8)D	SPLP East	Solid	6010B	322719
500-107399-25	2746-01-B101 (0-8)	SPLP East	Solid	6010B	322719
500-107399-26	2746-01-B102 (0-8)	SPLP East	Solid	6010B	322719
500-107399-27	2746-01-B103 (0-8)	SPLP East	Solid	6010B	322719
500-107399-28	2746-01-B104 (0-8)	SPLP East	Solid	6010B	322719

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 323156 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-29	2746-01-B105 (0-8)	SPLP East	Solid	6010B	322719
500-107399-30	2746-01-B108 (0-8)	SPLP East	Solid	6010B	322719
500-107399-31	2746-01-B107 (0-8)	SPLP East	Solid	6010B	322719
500-107399-32	2746-01-B106 (0-8)	SPLP East	Solid	6010B	322719
LB 500-322503/1-B	Method Blank	SPLP East	Solid	6010B	322719
LCS 500-322719/2-A	Lab Control Sample	Total/NA	Solid	6010B	322719

Analysis Batch: 323244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	SPLP East	Solid	6010B	322718
500-107399-2	2746-01-B35 (0-8)	SPLP East	Solid	6010B	322718
500-107399-4	2746-01-B33 (0-8)	SPLP East	Solid	6010B	322718
500-107399-5	2746-01-B32 (0-8)	SPLP East	Solid	6010B	322718
500-107399-6	2746-01-B31 (0-8)	SPLP East	Solid	6010B	322718
500-107399-7	2746-01-B30 (0-8)	SPLP East	Solid	6010B	322718
500-107399-8	2746-01-B29 (0-7)	SPLP East	Solid	6010B	322718
500-107399-9	2746-01-B29 (7-14)	SPLP East	Solid	6010B	322718
500-107399-10	2746-01-B29 (14-20)	SPLP East	Solid	6010B	322718
500-107399-11	2746-01-B28 (0-8)	SPLP East	Solid	6010B	322718
500-107399-12	2746-01-B27 (0-8)	SPLP East	Solid	6010B	322718
500-107399-13	2746-01-B26 (0-8)	SPLP East	Solid	6010B	322718
500-107399-14	2746-01-B26 (0-8)D	SPLP East	Solid	6010B	322718
500-107399-15	2746-01-B24 (0-5)	SPLP East	Solid	6010B	322718
500-107399-16	2746-01-B25 (0-7)	SPLP East	Solid	6010B	322718
500-107399-17	2746-01-B25 (7-14)	SPLP East	Solid	6010B	322718
500-107399-18	2746-01-B25 (14-20)	SPLP East	Solid	6010B	322718
500-107399-19	2746-01A-B02 (0-8)	SPLP East	Solid	6010B	322718
500-107399-20	2746-01A-B01 (0-8)	SPLP East	Solid	6010B	322718
500-107399-20 DU	2746-01A-B01 (0-8)	SPLP East	Solid	6010B	322718
500-107399-20 MS	2746-01A-B01 (0-8)	SPLP East	Solid	6010B	322718
LB 500-322502/1-B	Method Blank	SPLP East	Solid	6010B	322718
LCS 500-322718/2-A	Lab Control Sample	Total/NA	Solid	6010B	322718

Leach Batch: 323295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-26	2746-01-B102 (0-8)	SPLP East	Solid	1312	
500-107399-27	2746-01-B103 (0-8)	SPLP East	Solid	1312	
500-107399-30	2746-01-B108 (0-8)	SPLP East	Solid	1312	
LB 500-323295/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 323373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-26	2746-01-B102 (0-8)	SPLP East	Solid	3010A	323295
500-107399-27	2746-01-B103 (0-8)	SPLP East	Solid	3010A	323295
500-107399-30	2746-01-B108 (0-8)	SPLP East	Solid	3010A	323295
LB 500-323295/1-B	Method Blank	SPLP East	Solid	3010A	323295
LCS 500-323373/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 500-323373/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Metals (Continued)

Analysis Batch: 323420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-26	2746-01-B102 (0-8)	SPLP East	Solid	6010B	323373
500-107399-27	2746-01-B103 (0-8)	SPLP East	Solid	6010B	323373
500-107399-30	2746-01-B108 (0-8)	SPLP East	Solid	6010B	323373
LB 500-323295/1-B	Method Blank	SPLP East	Solid	6010B	323373
LCS 500-323373/2-A	Lab Control Sample	Total/NA	Solid	6010B	323373
LCSD 500-323373/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	323373

General Chemistry

Analysis Batch: 322355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	Moisture	
500-107399-1 DU	2746-01-B36 (0-8)	Total/NA	Solid	Moisture	
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	Moisture	
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	Moisture	
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	Moisture	
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	Moisture	
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	Moisture	
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	Moisture	
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	Moisture	
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	Moisture	
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	Moisture	
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	Moisture	
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	Moisture	
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	Moisture	
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	Moisture	
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	Moisture	
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	Moisture	
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	Moisture	
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	Moisture	
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	Moisture	
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	Moisture	

Analysis Batch: 322403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	Moisture	
500-107399-21 DU	2746-01-B98 (0-8)	Total/NA	Solid	Moisture	
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	Moisture	
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	Moisture	
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	Moisture	
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	Moisture	
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	Moisture	
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	Moisture	
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	Moisture	
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	Moisture	
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	Moisture	
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	Moisture	
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	Moisture	

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

General Chemistry (Continued)

Analysis Batch: 322684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107399-1	2746-01-B36 (0-8)	Total/NA	Solid	9045D	
500-107399-2	2746-01-B35 (0-8)	Total/NA	Solid	9045D	
500-107399-3	2746-01-B34 (0-8)	Total/NA	Solid	9045D	
500-107399-4	2746-01-B33 (0-8)	Total/NA	Solid	9045D	
500-107399-5	2746-01-B32 (0-8)	Total/NA	Solid	9045D	
500-107399-6	2746-01-B31 (0-8)	Total/NA	Solid	9045D	
500-107399-7	2746-01-B30 (0-8)	Total/NA	Solid	9045D	
500-107399-8	2746-01-B29 (0-7)	Total/NA	Solid	9045D	
500-107399-9	2746-01-B29 (7-14)	Total/NA	Solid	9045D	
500-107399-10	2746-01-B29 (14-20)	Total/NA	Solid	9045D	
500-107399-11	2746-01-B28 (0-8)	Total/NA	Solid	9045D	
500-107399-11 DU	2746-01-B28 (0-8)	Total/NA	Solid	9045D	
500-107399-12	2746-01-B27 (0-8)	Total/NA	Solid	9045D	
500-107399-13	2746-01-B26 (0-8)	Total/NA	Solid	9045D	
500-107399-14	2746-01-B26 (0-8)D	Total/NA	Solid	9045D	
500-107399-15	2746-01-B24 (0-5)	Total/NA	Solid	9045D	
500-107399-16	2746-01-B25 (0-7)	Total/NA	Solid	9045D	
500-107399-17	2746-01-B25 (7-14)	Total/NA	Solid	9045D	
500-107399-18	2746-01-B25 (14-20)	Total/NA	Solid	9045D	
500-107399-19	2746-01A-B02 (0-8)	Total/NA	Solid	9045D	
500-107399-20	2746-01A-B01 (0-8)	Total/NA	Solid	9045D	
500-107399-21	2746-01-B98 (0-8)	Total/NA	Solid	9045D	
500-107399-22	2746-01-B99 (0-8)	Total/NA	Solid	9045D	
500-107399-23	2746-01-B100 (0-8)	Total/NA	Solid	9045D	
500-107399-24	2746-01-B100 (0-8)D	Total/NA	Solid	9045D	
500-107399-25	2746-01-B101 (0-8)	Total/NA	Solid	9045D	
500-107399-26	2746-01-B102 (0-8)	Total/NA	Solid	9045D	
500-107399-27	2746-01-B103 (0-8)	Total/NA	Solid	9045D	
500-107399-28	2746-01-B104 (0-8)	Total/NA	Solid	9045D	
500-107399-29	2746-01-B105 (0-8)	Total/NA	Solid	9045D	
500-107399-30	2746-01-B108 (0-8)	Total/NA	Solid	9045D	
500-107399-30 DU	2746-01-B108 (0-8)	Total/NA	Solid	9045D	
500-107399-31	2746-01-B107 (0-8)	Total/NA	Solid	9045D	
500-107399-32	2746-01-B106 (0-8)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-122)	(75-120)	(70-134)	(75-122)
500-107399-1	2746-01-B36 (0-8)	98	102	106	110
500-107399-2	2746-01-B35 (0-8)	100	106	112	110
500-107399-3	2746-01-B34 (0-8)	100	103	110	112
500-107399-4	2746-01-B33 (0-8)	100	103	107	106
500-107399-5	2746-01-B32 (0-8)	102	106	117	111
500-107399-6	2746-01-B31 (0-8)	103	105	112	109
500-107399-7	2746-01-B30 (0-8)	98	104	111	109
500-107399-8	2746-01-B29 (0-7)	99	104	115	109
500-107399-9	2746-01-B29 (7-14)	97	105	112	111
500-107399-10	2746-01-B29 (14-20)	97	104	111	114
500-107399-11	2746-01-B28 (0-8)	98	103	112	108
500-107399-12	2746-01-B27 (0-8)	99	106	112	109
500-107399-13	2746-01-B26 (0-8)	97	97	93	102
500-107399-14	2746-01-B26 (0-8)D	98	105	113	108
500-107399-15	2746-01-B24 (0-5)	100	104	112	107
500-107399-16	2746-01-B25 (0-7)	100	104	112	109
500-107399-17	2746-01-B25 (7-14)	96	111	116	110
500-107399-18	2746-01-B25 (14-20)	95	105	106	111
500-107399-19	2746-01A-B02 (0-8)	98	103	108	111
500-107399-20	2746-01A-B01 (0-8)	98	107	114	109
500-107399-21	2746-01-B98 (0-8)	97	104	118	115
500-107399-22	2746-01-B99 (0-8)	89	92	85	106
500-107399-23	2746-01-B100 (0-8)	97	107	116	110
500-107399-24	2746-01-B100 (0-8)D	96	108	111	112
500-107399-25	2746-01-B101 (0-8)	95	97	89	106
500-107399-26	2746-01-B102 (0-8)	92	95	91	105
500-107399-27	2746-01-B103 (0-8)	95	95	91	105
500-107399-28	2746-01-B104 (0-8)	90	98	91	108
500-107399-29	2746-01-B105 (0-8)	92	98	89	106
500-107399-30	2746-01-B108 (0-8)	97	110	111	111
500-107399-31	2746-01-B107 (0-8)	92	98	90	107
500-107399-32	2746-01-B106 (0-8)	92	107	114	110
LCS 500-323039/4	Lab Control Sample	106	103	102	112
LCS 500-323064/3	Lab Control Sample	103	102	100	112
LCS 500-323152/4	Lab Control Sample	99	91	79	107
LCSD 500-323039/5	Lab Control Sample Dup	104	104	103	110
LCSD 500-323064/28	Lab Control Sample Dup	105	106	104	111
LCSD 500-323152/5	Lab Control Sample Dup	97	91	81	105
MB 500-323039/6	Method Blank	103	106	105	108
MB 500-323064/4	Method Blank	100	101	111	112
MB 500-323152/6	Method Blank	94	91	82	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107399-1	2746-01-B36 (0-8)	121 X	104	98	89	92	106
500-107399-1 MS	2746-01-B36 (0-8)	114 X	106	96	89	93	176 X
500-107399-1 MSD	2746-01-B36 (0-8)	108	100	90	84	90	177 X
500-107399-2	2746-01-B35 (0-8)	112 X	98	93	84	83	102
500-107399-3	2746-01-B34 (0-8)	112 X	98	91	83	76	101
500-107399-4	2746-01-B33 (0-8)	123 X	109	102	90	92	109
500-107399-5	2746-01-B32 (0-8)	114 X	100	93	84	81	103
500-107399-6	2746-01-B31 (0-8)	108	103	88	81	90	147 X
500-107399-7	2746-01-B30 (0-8)	117 X	105	96	88	83	105
500-107399-8	2746-01-B29 (0-7)	119 X	105	97	87	91	104
500-107399-9	2746-01-B29 (7-14)	117 X	102	93	87	80	101
500-107399-10	2746-01-B29 (14-20)	116 X	102	96	86	66	103
500-107399-11	2746-01-B28 (0-8)	113 X	100	97	88	82	104
500-107399-12	2746-01-B27 (0-8)	117 X	103	97	90	85	104
500-107399-13	2746-01-B26 (0-8)	111 X	98	93	84	76	104
500-107399-14	2746-01-B26 (0-8)D	117 X	103	97	86	78	110
500-107399-15	2746-01-B24 (0-5)	121 X	107	98	89	92	111
500-107399-16	2746-01-B25 (0-7)	124 X	111 X	104	93	96	118
500-107399-17	2746-01-B25 (7-14)	120 X	106	99	90	78	117
500-107399-18	2746-01-B25 (14-20)	114 X	102	95	87	74	117
500-107399-19	2746-01A-B02 (0-8)	122 X	108	102	94	92	122
500-107399-20	2746-01A-B01 (0-8)	123 X	109	106	93	97	123
500-107399-21	2746-01-B98 (0-8)	102	109	93	91	66	195 X
500-107399-21 MS	2746-01-B98 (0-8)	91	101	88	93	62	188 X
500-107399-21 MSD	2746-01-B98 (0-8)	99	106	93	97	56	197 X
500-107399-22	2746-01-B99 (0-8)	100	107	93	91	73	193 X
500-107399-23	2746-01-B100 (0-8)	93	104	88	86	63	185 X
500-107399-24	2746-01-B100 (0-8)D	105	112 X	98	91	79	231 X
500-107399-25	2746-01-B101 (0-8)	96	103	83	84	73	203 X
500-107399-26	2746-01-B102 (0-8)	92	103	86	88	70	195 X
500-107399-27	2746-01-B103 (0-8)	84	89	72	75	70	190 X
500-107399-28	2746-01-B104 (0-8)	101	105	88	87	53	185 X
500-107399-29	2746-01-B105 (0-8)	99	110	88	92	61	208 X
500-107399-30	2746-01-B108 (0-8)	87	93	76	84	58	158 X
500-107399-31	2746-01-B107 (0-8)	94	100	83	92	61	163 X
500-107399-32	2746-01-B106 (0-8)	85	91	75	75	65	189 X
LCS 500-322405/2-A	Lab Control Sample	109	100	90	84	89	98
LCS 500-322406/2-A	Lab Control Sample	90	99	101	96	103	109
MB 500-322405/1-A	Method Blank	105	101	92	85	65	100
MB 500-322406/1-A	Method Blank	89	94	93	94	80	113

Surrogate Legend

- 2FP = 2-Fluorophenol
- PHL = Phenol-d5
- NBZ = Nitrobenzene-d5
- FBP = 2-Fluorobiphenyl
- TBP = 2,4,6-Tribromophenol
- TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-323039/6

Matrix: Solid

Analysis Batch: 323039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 13:54	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 13:54	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 13:54	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 13:54	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 13:54	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 13:54	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 13:54	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 13:54	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 13:54	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 13:54	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 13:54	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 13:54	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 13:54	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 13:54	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 13:54	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 13:54	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 13:54	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 13:54	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 13:54	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 13:54	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 13:54	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 13:54	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 13:54	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 13:54	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 13:54	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 13:54	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 13:54	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 13:54	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 13:54	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 13:54	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 13:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		02/16/16 13:54	1
Dibromofluoromethane	106		75 - 120		02/16/16 13:54	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		02/16/16 13:54	1
Toluene-d8 (Surr)	108		75 - 122		02/16/16 13:54	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323039/4

Matrix: Solid

Analysis Batch: 323039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0438		mg/Kg		88	50 - 133
Benzene	0.0500	0.0533		mg/Kg		107	70 - 120
Bromodichloromethane	0.0500	0.0478		mg/Kg		96	69 - 120
Bromoform	0.0500	0.0425		mg/Kg		85	51 - 127
Bromomethane	0.0500	0.0401		mg/Kg		80	69 - 120
2-Butanone (MEK)	0.0500	0.0528		mg/Kg		106	50 - 148
Carbon disulfide	0.0500	0.0491		mg/Kg		98	58 - 120
Carbon tetrachloride	0.0500	0.0517		mg/Kg		103	51 - 124
Chlorobenzene	0.0500	0.0553		mg/Kg		111	70 - 120
Chloroethane	0.0500	0.0509		mg/Kg		102	49 - 125
Chloroform	0.0500	0.0530		mg/Kg		106	70 - 120
Chloromethane	0.0500	0.0571		mg/Kg		114	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0529		mg/Kg		106	70 - 120
Dibromochloromethane	0.0500	0.0484		mg/Kg		97	69 - 126
1,1-Dichloroethane	0.0500	0.0540		mg/Kg		108	70 - 120
1,2-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 128
1,1-Dichloroethene	0.0500	0.0537		mg/Kg		107	67 - 120
1,2-Dichloropropane	0.0500	0.0524		mg/Kg		105	70 - 120
Ethylbenzene	0.0500	0.0572		mg/Kg		114	70 - 120
2-Hexanone	0.0500	0.0581		mg/Kg		116	50 - 150
Methylene Chloride	0.0500	0.0524		mg/Kg		105	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0586		mg/Kg		117	50 - 150
Methyl tert-butyl ether	0.0500	0.0521		mg/Kg		104	70 - 120
Styrene	0.0500	0.0539		mg/Kg		108	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0497		mg/Kg		99	70 - 133
Tetrachloroethene	0.0500	0.0597		mg/Kg		119	70 - 120
Toluene	0.0500	0.0551		mg/Kg		110	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0508		mg/Kg		102	70 - 120
1,1,1-Trichloroethane	0.0500	0.0526		mg/Kg		105	70 - 120
1,1,2-Trichloroethane	0.0500	0.0542		mg/Kg		108	70 - 120
Trichloroethene	0.0500	0.0549		mg/Kg		110	70 - 120
Vinyl acetate	0.0500	0.0841	*	mg/Kg		168	60 - 150
Vinyl chloride	0.0500	0.0533		mg/Kg		107	69 - 120
Xylenes, Total	0.100	0.115		mg/Kg		115	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 122
Dibromofluoromethane	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		70 - 134
Toluene-d8 (Surr)	112		75 - 122

Lab Sample ID: LCSD 500-323039/5

Matrix: Solid

Analysis Batch: 323039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0462		mg/Kg		92	50 - 133	5	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 120	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323039/5
Matrix: Solid
Analysis Batch: 323039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0466		mg/Kg		93	69 - 120	3	30
Bromoform	0.0500	0.0427		mg/Kg		85	51 - 127	1	30
Bromomethane	0.0500	0.0415		mg/Kg		83	69 - 120	4	30
2-Butanone (MEK)	0.0500	0.0543		mg/Kg		109	50 - 148	3	30
Carbon disulfide	0.0500	0.0480		mg/Kg		96	58 - 120	2	30
Carbon tetrachloride	0.0500	0.0488		mg/Kg		98	51 - 124	6	30
Chlorobenzene	0.0500	0.0524		mg/Kg		105	70 - 120	6	30
Chloroethane	0.0500	0.0491		mg/Kg		98	49 - 125	4	30
Chloroform	0.0500	0.0513		mg/Kg		103	70 - 120	3	30
Chloromethane	0.0500	0.0561		mg/Kg		112	63 - 126	2	30
cis-1,2-Dichloroethene	0.0500	0.0517		mg/Kg		103	70 - 120	2	30
Dibromochloromethane	0.0500	0.0472		mg/Kg		94	69 - 126	2	30
1,1-Dichloroethane	0.0500	0.0521		mg/Kg		104	70 - 120	4	30
1,2-Dichloroethane	0.0500	0.0504		mg/Kg		101	70 - 128	3	30
1,1-Dichloroethene	0.0500	0.0519		mg/Kg		104	67 - 120	3	30
1,2-Dichloropropane	0.0500	0.0513		mg/Kg		103	70 - 120	2	30
Ethylbenzene	0.0500	0.0534		mg/Kg		107	70 - 120	7	30
2-Hexanone	0.0500	0.0615		mg/Kg		123	50 - 150	6	30
Methylene Chloride	0.0500	0.0525		mg/Kg		105	70 - 120	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0583		mg/Kg		117	50 - 150	1	30
Methyl tert-butyl ether	0.0500	0.0519		mg/Kg		104	70 - 120	0	30
Styrene	0.0500	0.0504		mg/Kg		101	70 - 120	7	30
1,1,2,2-Tetrachloroethane	0.0500	0.0498		mg/Kg		100	70 - 133	0	30
Tetrachloroethene	0.0500	0.0551		mg/Kg		110	70 - 120	8	30
Toluene	0.0500	0.0525		mg/Kg		105	70 - 120	5	30
trans-1,2-Dichloroethene	0.0500	0.0494		mg/Kg		99	70 - 120	3	30
1,1,1-Trichloroethane	0.0500	0.0490		mg/Kg		98	70 - 120	7	30
1,1,2-Trichloroethane	0.0500	0.0503		mg/Kg		101	70 - 120	8	30
Trichloroethene	0.0500	0.0547		mg/Kg		109	70 - 120	0	30
Vinyl acetate	0.0500	0.0876 *		mg/Kg		175	60 - 150	4	30
Vinyl chloride	0.0500	0.0519		mg/Kg		104	69 - 120	3	30
Xylenes, Total	0.100	0.108		mg/Kg		108	70 - 120	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	104		70 - 122
Dibromofluoromethane	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	103		70 - 134
Toluene-d8 (Surr)	110		75 - 122

Lab Sample ID: MB 500-323064/4
Matrix: Solid
Analysis Batch: 323064

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 21:41	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:41	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 21:41	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-323064/4
Matrix: Solid
Analysis Batch: 323064

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:41	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 21:41	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 21:41	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:41	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 21:41	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 21:41	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:41	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:41	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 21:41	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 21:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 21:41	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 21:41	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:41	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:41	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 21:41	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:41	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:41	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 21:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		02/16/16 21:41	1
Dibromofluoromethane	101		75 - 120		02/16/16 21:41	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		02/16/16 21:41	1
Toluene-d8 (Surr)	112		75 - 122		02/16/16 21:41	1

Lab Sample ID: LCS 500-323064/3
Matrix: Solid
Analysis Batch: 323064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0426		mg/Kg		85	50 - 133
Benzene	0.0500	0.0483		mg/Kg		97	70 - 120
Bromodichloromethane	0.0500	0.0437		mg/Kg		87	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323064/3

Matrix: Solid

Analysis Batch: 323064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0392		mg/Kg		78	51 - 127
Bromomethane	0.0500	0.0398		mg/Kg		80	69 - 120
2-Butanone (MEK)	0.0500	0.0458		mg/Kg		92	50 - 148
Carbon disulfide	0.0500	0.0420		mg/Kg		84	58 - 120
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	51 - 124
Chlorobenzene	0.0500	0.0502		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0480		mg/Kg		96	49 - 125
Chloroform	0.0500	0.0477		mg/Kg		95	70 - 120
Chloromethane	0.0500	0.0525		mg/Kg		105	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 120
Dibromochloromethane	0.0500	0.0434		mg/Kg		87	69 - 126
1,1-Dichloroethane	0.0500	0.0487		mg/Kg		97	70 - 120
1,2-Dichloroethane	0.0500	0.0477		mg/Kg		95	70 - 128
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	67 - 120
1,2-Dichloropropane	0.0500	0.0485		mg/Kg		97	70 - 120
Ethylbenzene	0.0500	0.0499		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0540		mg/Kg		108	50 - 150
Methylene Chloride	0.0500	0.0487		mg/Kg		97	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0549		mg/Kg		110	50 - 150
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	70 - 120
Styrene	0.0500	0.0484		mg/Kg		97	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 133
Tetrachloroethene	0.0500	0.0501		mg/Kg		100	70 - 120
Toluene	0.0500	0.0492		mg/Kg		98	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 120
1,1,1-Trichloroethane	0.0500	0.0445		mg/Kg		89	70 - 120
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 120
Trichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120
Vinyl acetate	0.0500	0.0695		mg/Kg		139	60 - 150
Vinyl chloride	0.0500	0.0474		mg/Kg		95	69 - 120
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	112		75 - 122

Lab Sample ID: LCSD 500-323064/28

Matrix: Solid

Analysis Batch: 323064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0553		mg/Kg		111	50 - 133	26	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 120	7	30
Bromodichloromethane	0.0500	0.0476		mg/Kg		95	69 - 120	9	30
Bromoform	0.0500	0.0434		mg/Kg		87	51 - 127	10	30
Bromomethane	0.0500	0.0465		mg/Kg		93	69 - 120	15	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323064/28

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 323064

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0651	*	mg/Kg		130	50 - 148	35	30
Carbon disulfide	0.0500	0.0463		mg/Kg		93	58 - 120	10	30
Carbon tetrachloride	0.0500	0.0476		mg/Kg		95	51 - 124	9	30
Chlorobenzene	0.0500	0.0525		mg/Kg		105	70 - 120	5	30
Chloroethane	0.0500	0.0497		mg/Kg		99	49 - 125	4	30
Chloroform	0.0500	0.0519		mg/Kg		104	70 - 120	9	30
Chloromethane	0.0500	0.0587		mg/Kg		117	63 - 126	11	30
cis-1,2-Dichloroethene	0.0500	0.0504		mg/Kg		101	70 - 120	6	30
Dibromochloromethane	0.0500	0.0483		mg/Kg		97	69 - 126	11	30
1,1-Dichloroethane	0.0500	0.0535		mg/Kg		107	70 - 120	9	30
1,2-Dichloroethane	0.0500	0.0510		mg/Kg		102	70 - 128	7	30
1,1-Dichloroethene	0.0500	0.0521		mg/Kg		104	67 - 120	10	30
1,2-Dichloropropane	0.0500	0.0522		mg/Kg		104	70 - 120	7	30
Ethylbenzene	0.0500	0.0521		mg/Kg		104	70 - 120	4	30
2-Hexanone	0.0500	0.0624		mg/Kg		125	50 - 150	14	30
Methylene Chloride	0.0500	0.0539		mg/Kg		108	70 - 120	10	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0625		mg/Kg		125	50 - 150	13	30
Methyl tert-butyl ether	0.0500	0.0512		mg/Kg		102	70 - 120	9	30
Styrene	0.0500	0.0503		mg/Kg		101	70 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0507		mg/Kg		101	70 - 133	10	30
Tetrachloroethene	0.0500	0.0514		mg/Kg		103	70 - 120	3	30
Toluene	0.0500	0.0525		mg/Kg		105	70 - 120	6	30
trans-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 120	12	30
1,1,1-Trichloroethane	0.0500	0.0480		mg/Kg		96	70 - 120	8	30
1,1,2-Trichloroethane	0.0500	0.0510		mg/Kg		102	70 - 120	7	30
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 120	10	30
Vinyl acetate	0.0500	0.0738		mg/Kg		148	60 - 150	6	30
Vinyl chloride	0.0500	0.0556		mg/Kg		111	69 - 120	16	30
Xylenes, Total	0.100	0.106		mg/Kg		106	70 - 120	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 122
Dibromofluoromethane	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	111		75 - 122

Lab Sample ID: MB 500-323152/6

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 323152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/17/16 10:53	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 10:53	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/17/16 10:53	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-323152/6

Matrix: Solid

Analysis Batch: 323152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 10:53	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/17/16 10:53	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/17/16 10:53	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 10:53	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/17/16 10:53	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/17/16 10:53	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 10:53	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 10:53	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/17/16 10:53	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/17/16 10:53	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/17/16 10:53	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/17/16 10:53	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 10:53	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 10:53	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/17/16 10:53	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 10:53	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 10:53	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/17/16 10:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		70 - 122		02/17/16 10:53	1
Dibromofluoromethane	91		75 - 120		02/17/16 10:53	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		02/17/16 10:53	1
Toluene-d8 (Surr)	102		75 - 122		02/17/16 10:53	1

Lab Sample ID: LCS 500-323152/4

Matrix: Solid

Analysis Batch: 323152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acetone	0.0500	0.0482		mg/Kg		96	50 - 133
Benzene	0.0500	0.0570		mg/Kg		114	70 - 120
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	69 - 120
Bromoform	0.0500	0.0422		mg/Kg		84	51 - 127
Bromomethane	0.0500	0.0348		mg/Kg		70	69 - 120
2-Butanone (MEK)	0.0500	0.0482		mg/Kg		96	50 - 148

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323152/4
Matrix: Solid
Analysis Batch: 323152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	0.0500	0.0515		mg/Kg		103	58 - 120
Carbon tetrachloride	0.0500	0.0422		mg/Kg		84	51 - 124
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0377		mg/Kg		75	49 - 125
Chloroform	0.0500	0.0493		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0528		mg/Kg		106	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 120
Dibromochloromethane	0.0500	0.0457		mg/Kg		91	69 - 126
1,1-Dichloroethane	0.0500	0.0514		mg/Kg		103	70 - 120
1,2-Dichloroethane	0.0500	0.0407		mg/Kg		81	70 - 128
1,1-Dichloroethene	0.0500	0.0482		mg/Kg		96	67 - 120
1,2-Dichloropropane	0.0500	0.0530		mg/Kg		106	70 - 120
Ethylbenzene	0.0500	0.0536		mg/Kg		107	70 - 120
2-Hexanone	0.0500	0.0467		mg/Kg		93	50 - 150
Methylene Chloride	0.0500	0.0534		mg/Kg		107	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0474		mg/Kg		95	50 - 150
Methyl tert-butyl ether	0.0500	0.0480		mg/Kg		96	70 - 120
Styrene	0.0500	0.0532		mg/Kg		106	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0528		mg/Kg		106	70 - 133
Tetrachloroethene	0.0500	0.0477		mg/Kg		95	70 - 120
Toluene	0.0500	0.0530		mg/Kg		106	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
1,1,1-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 120
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 120
Trichloroethene	0.0500	0.0513		mg/Kg		103	70 - 120
Vinyl acetate	0.0500	0.0575		mg/Kg		115	60 - 150
Vinyl chloride	0.0500	0.0459		mg/Kg		92	69 - 120
Xylenes, Total	0.100	0.103		mg/Kg		103	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Lab Sample ID: LCSD 500-323152/5
Matrix: Solid
Analysis Batch: 323152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0592		mg/Kg		118	50 - 133	21	30
Benzene	0.0500	0.0542		mg/Kg		108	70 - 120	5	30
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	69 - 120	3	30
Bromoform	0.0500	0.0432		mg/Kg		86	51 - 127	2	30
Bromomethane	0.0500	0.0387		mg/Kg		77	69 - 120	11	30
2-Butanone (MEK)	0.0500	0.0611		mg/Kg		122	50 - 148	24	30
Carbon disulfide	0.0500	0.0483		mg/Kg		97	58 - 120	6	30
Carbon tetrachloride	0.0500	0.0394		mg/Kg		79	51 - 124	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323152/5

Matrix: Solid

Analysis Batch: 323152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120	3	30
Chloroethane	0.0500	0.0643	*	mg/Kg		129	49 - 125	52	30
Chloroform	0.0500	0.0473		mg/Kg		95	70 - 120	4	30
Chloromethane	0.0500	0.0543		mg/Kg		109	63 - 126	3	30
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 120	4	30
Dibromochloromethane	0.0500	0.0453		mg/Kg		91	69 - 126	1	30
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 120	7	30
1,2-Dichloroethane	0.0500	0.0400		mg/Kg		80	70 - 128	2	30
1,1-Dichloroethene	0.0500	0.0457		mg/Kg		91	67 - 120	5	30
1,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	70 - 120	2	30
Ethylbenzene	0.0500	0.0512		mg/Kg		102	70 - 120	5	30
2-Hexanone	0.0500	0.0573		mg/Kg		115	50 - 150	20	30
Methylene Chloride	0.0500	0.0506		mg/Kg		101	70 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0559		mg/Kg		112	50 - 150	16	30
Methyl tert-butyl ether	0.0500	0.0472		mg/Kg		94	70 - 120	2	30
Styrene	0.0500	0.0508		mg/Kg		102	70 - 120	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0536		mg/Kg		107	70 - 133	2	30
Tetrachloroethene	0.0500	0.0453		mg/Kg		91	70 - 120	5	30
Toluene	0.0500	0.0513		mg/Kg		103	70 - 120	3	30
trans-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120	5	30
1,1,1-Trichloroethane	0.0500	0.0422		mg/Kg		84	70 - 120	5	30
1,1,2-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 120	1	30
Trichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120	3	30
Vinyl acetate	0.0500	0.0617		mg/Kg		123	60 - 150	7	30
Vinyl chloride	0.0500	0.0486		mg/Kg		97	69 - 120	6	30
Xylenes, Total	0.100	0.0973		mg/Kg		97	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	97		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	105		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322405/1-A

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 322405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/11/16 07:18	02/18/16 22:01	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322405/1-A
Matrix: Solid
Analysis Batch: 323446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/11/16 07:18	02/18/16 22:01	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322405/1-A
Matrix: Solid
Analysis Batch: 323446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/11/16 07:18	02/18/16 22:01	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/11/16 07:18	02/18/16 22:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	105		25 - 110	02/11/16 07:18	02/18/16 22:01	1
Phenol-d5	101		31 - 110	02/11/16 07:18	02/18/16 22:01	1
Nitrobenzene-d5	92		25 - 115	02/11/16 07:18	02/18/16 22:01	1
2-Fluorobiphenyl	85		25 - 119	02/11/16 07:18	02/18/16 22:01	1
2,4,6-Tribromophenol	65		35 - 137	02/11/16 07:18	02/18/16 22:01	1
Terphenyl-d14	100		36 - 134	02/11/16 07:18	02/18/16 22:01	1

Lab Sample ID: LCS 500-322405/2-A
Matrix: Solid
Analysis Batch: 323446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.44		mg/Kg		108	41 - 110
Bis(2-chloroethyl)ether	1.33	1.28		mg/Kg		96	32 - 110
1,3-Dichlorobenzene	1.33	1.25		mg/Kg		94	44 - 110
1,4-Dichlorobenzene	1.33	1.26		mg/Kg		95	45 - 110
1,2-Dichlorobenzene	1.33	1.28		mg/Kg		96	48 - 110
2-Methylphenol	1.33	1.37		mg/Kg		103	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.15		mg/Kg		86	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.37		mg/Kg		103	24 - 123
Hexachloroethane	1.33	1.27		mg/Kg		95	44 - 110
2-Chlorophenol	1.33	1.34		mg/Kg		100	47 - 114
Nitrobenzene	1.33	1.21		mg/Kg		91	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.27		mg/Kg		95	42 - 110
1,2,4-Trichlorobenzene	1.33	1.32		mg/Kg		99	49 - 110
Isophorone	1.33	1.32		mg/Kg		99	35 - 110
2,4-Dimethylphenol	1.33	1.34		mg/Kg		100	49 - 110
Hexachlorobutadiene	1.33	1.27		mg/Kg		95	47 - 114
Naphthalene	1.33	1.26		mg/Kg		95	48 - 110
2,4-Dichlorophenol	1.33	1.28		mg/Kg		96	53 - 113
4-Chloroaniline	1.33	0.888		mg/Kg		67	16 - 118
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	44 - 118
2,4,5-Trichlorophenol	1.33	1.12		mg/Kg		84	41 - 120
Hexachlorocyclopentadiene	1.33	0.457	J	mg/Kg		34	10 - 110
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	48 - 110
2-Nitroaniline	1.33	1.12		mg/Kg		84	42 - 122
2-Chloronaphthalene	1.33	1.15		mg/Kg		87	52 - 114
4-Chloro-3-methylphenol	1.33	1.26		mg/Kg		95	52 - 111

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322405/2-A

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	1.33	1.22		mg/Kg		91	54 - 117
2-Nitrophenol	1.33	1.20		mg/Kg		90	48 - 113
3-Nitroaniline	1.33	0.672		mg/Kg		50	36 - 131
Dimethyl phthalate	1.33	1.19		mg/Kg		89	56 - 113
2,4-Dinitrophenol	2.67	0.769		mg/Kg		29	10 - 110
Acenaphthylene	1.33	1.15		mg/Kg		87	49 - 110
2,4-Dinitrotoluene	1.33	1.19		mg/Kg		89	53 - 122
Acenaphthene	1.33	1.05		mg/Kg		79	46 - 110
Dibenzofuran	1.33	1.15		mg/Kg		86	51 - 119
4-Nitrophenol	2.67	2.19		mg/Kg		82	10 - 157
Fluorene	1.33	1.17		mg/Kg		88	47 - 121
4-Nitroaniline	1.33	1.12		mg/Kg		84	28 - 157
4-Bromophenyl phenyl ether	1.33	1.31		mg/Kg		98	55 - 113
Hexachlorobenzene	1.33	1.27		mg/Kg		96	54 - 114
Diethyl phthalate	1.33	1.18		mg/Kg		89	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.19		mg/Kg		89	53 - 117
Pentachlorophenol	2.67	1.82		mg/Kg		68	10 - 124
N-Nitrosodiphenylamine	1.33	1.26		mg/Kg		95	52 - 111
4,6-Dinitro-2-methylphenol	2.67	1.37		mg/Kg		51	10 - 110
Phenanthrene	1.33	1.27		mg/Kg		95	48 - 121
Anthracene	1.33	1.29		mg/Kg		97	48 - 118
Carbazole	1.33	1.44		mg/Kg		108	26 - 188
Di-n-butyl phthalate	1.33	1.35		mg/Kg		101	50 - 128
Fluoranthene	1.33	1.32		mg/Kg		99	48 - 128
Pyrene	1.33	1.29		mg/Kg		97	46 - 114
Butyl benzyl phthalate	1.33	1.32		mg/Kg		99	49 - 121
Benzo[a]anthracene	1.33	1.23		mg/Kg		92	49 - 121
Chrysene	1.33	1.37		mg/Kg		103	45 - 118
3,3'-Dichlorobenzidine	1.33	0.864		mg/Kg		65	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.32		mg/Kg		99	47 - 133
Di-n-octyl phthalate	1.33	1.35		mg/Kg		101	46 - 138
Benzo[b]fluoranthene	1.33	1.28		mg/Kg		96	54 - 122
Benzo[k]fluoranthene	1.33	1.35		mg/Kg		101	44 - 137
Benzo[a]pyrene	1.33	1.32		mg/Kg		99	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.30		mg/Kg		97	49 - 132
Dibenz(a,h)anthracene	1.33	1.30		mg/Kg		98	48 - 134
Benzo[g,h,i]perylene	1.33	1.32		mg/Kg		99	52 - 125
3 & 4 Methylphenol	1.33	1.43		mg/Kg		107	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	109		25 - 110
Phenol-d5	100		31 - 110
Nitrobenzene-d5	90		25 - 115
2-Fluorobiphenyl	84		25 - 119
2,4,6-Tribromophenol	89		35 - 137
Terphenyl-d14	98		36 - 134

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107399-1 MS

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322405

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Phenol	<0.19	F1	1.54	1.75	F1	mg/Kg	☼	113	41 - 110
Bis(2-chloroethyl)ether	<0.19	F1	1.54	1.52		mg/Kg	☼	99	32 - 110
1,3-Dichlorobenzene	<0.19		1.54	1.51		mg/Kg	☼	98	44 - 110
1,4-Dichlorobenzene	<0.19		1.54	1.52		mg/Kg	☼	98	45 - 110
1,2-Dichlorobenzene	<0.19		1.54	1.52		mg/Kg	☼	99	48 - 110
2-Methylphenol	<0.19		1.54	1.61		mg/Kg	☼	104	44 - 110
2,2'-oxybis[1-chloropropane]	<0.19		1.54	1.32		mg/Kg	☼	85	30 - 115
N-Nitrosodi-n-propylamine	<0.078		1.54	1.60		mg/Kg	☼	104	24 - 123
Hexachloroethane	<0.19		1.54	1.21		mg/Kg	☼	78	44 - 110
2-Chlorophenol	<0.19		1.54	1.64		mg/Kg	☼	106	47 - 114
Nitrobenzene	<0.038		1.54	1.48		mg/Kg	☼	96	35 - 113
Bis(2-chloroethoxy)methane	<0.19		1.54	1.56		mg/Kg	☼	101	42 - 110
1,2,4-Trichlorobenzene	<0.19		1.54	1.60		mg/Kg	☼	104	49 - 110
Isophorone	<0.19		1.54	1.60		mg/Kg	☼	103	35 - 110
2,4-Dimethylphenol	<0.38		1.54	1.65		mg/Kg	☼	107	49 - 110
Hexachlorobutadiene	<0.19		1.54	1.54		mg/Kg	☼	100	47 - 114
Naphthalene	<0.038		1.54	1.56		mg/Kg	☼	101	48 - 110
2,4-Dichlorophenol	<0.38		1.54	1.58		mg/Kg	☼	102	53 - 113
4-Chloroaniline	<0.78	F1	1.54	1.76		mg/Kg	☼	114	16 - 118
2,4,6-Trichlorophenol	<0.38		1.54	1.48		mg/Kg	☼	96	44 - 118
2,4,5-Trichlorophenol	<0.38		1.54	1.41		mg/Kg	☼	91	41 - 120
Hexachlorocyclopentadiene	<0.78	F1	1.54	<0.78	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	<0.038		1.54	1.50		mg/Kg	☼	97	48 - 110
2-Nitroaniline	<0.19		1.54	1.39		mg/Kg	☼	90	42 - 122
2-Chloronaphthalene	<0.19		1.54	1.43		mg/Kg	☼	93	52 - 114
4-Chloro-3-methylphenol	<0.38		1.54	1.57		mg/Kg	☼	102	52 - 111
2,6-Dinitrotoluene	<0.19		1.54	1.45		mg/Kg	☼	94	54 - 117
2-Nitrophenol	<0.38		1.54	1.47		mg/Kg	☼	95	48 - 113
3-Nitroaniline	<0.38	F2	1.54	1.11		mg/Kg	☼	72	36 - 131
Dimethyl phthalate	<0.19		1.54	1.46		mg/Kg	☼	95	56 - 113
2,4-Dinitrophenol	<0.78	F1	3.09	<0.78	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.038		1.54	1.42		mg/Kg	☼	92	49 - 110
2,4-Dinitrotoluene	<0.19		1.54	1.36		mg/Kg	☼	88	53 - 122
Acenaphthene	<0.038		1.54	1.29		mg/Kg	☼	84	46 - 110
Dibenzofuran	<0.19		1.54	1.42		mg/Kg	☼	92	51 - 119
4-Nitrophenol	<0.78		3.09	2.81		mg/Kg	☼	91	10 - 157
Fluorene	<0.038		1.54	1.44		mg/Kg	☼	93	47 - 121
4-Nitroaniline	<0.38		1.54	1.31		mg/Kg	☼	85	28 - 157
4-Bromophenyl phenyl ether	<0.19		1.54	1.64		mg/Kg	☼	106	55 - 113
Hexachlorobenzene	<0.078		1.54	1.58		mg/Kg	☼	102	54 - 114
Diethyl phthalate	<0.19		1.54	1.46		mg/Kg	☼	94	50 - 128
4-Chlorophenyl phenyl ether	<0.19		1.54	1.48		mg/Kg	☼	96	53 - 117
Pentachlorophenol	<0.78		3.09	1.38		mg/Kg	☼	45	10 - 124
N-Nitrosodiphenylamine	<0.19		1.54	1.57		mg/Kg	☼	102	52 - 111
4,6-Dinitro-2-methylphenol	<0.78	F1	3.09	<0.78	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.0096	J	1.54	1.53		mg/Kg	☼	98	48 - 121
Anthracene	<0.038		1.54	1.52		mg/Kg	☼	99	48 - 118
Carbazole	<0.19		1.54	1.70		mg/Kg	☼	110	26 - 188

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107399-1 MS

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322405

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Di-n-butyl phthalate	<0.19		1.54	1.65		mg/Kg	☼	107		50 - 128
Fluoranthene	0.010	J	1.54	1.45		mg/Kg	☼	93		48 - 128
Pyrene	0.011	J F1	1.54	2.52	F1	mg/Kg	☼	163		46 - 114
Butyl benzyl phthalate	<0.19	F1	1.54	2.59	F1	mg/Kg	☼	168		49 - 121
Benzo[a]anthracene	<0.038		1.54	1.52		mg/Kg	☼	99		49 - 121
Chrysene	<0.038		1.54	1.63		mg/Kg	☼	105		45 - 118
3,3'-Dichlorobenzidine	<0.19		1.54	0.979		mg/Kg	☼	63		26 - 128
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.54	2.49	F1	mg/Kg	☼	161		47 - 133
Di-n-octyl phthalate	<0.19		1.54	0.990		mg/Kg	☼	64		46 - 138
Benzo[b]fluoranthene	<0.038	F1	1.54	2.00	F1	mg/Kg	☼	130		54 - 122
Benzo[k]fluoranthene	<0.038	F1	1.54	2.18	F1	mg/Kg	☼	141		44 - 137
Benzo[a]pyrene	<0.038		1.54	1.71		mg/Kg	☼	111		53 - 122
Indeno[1,2,3-cd]pyrene	<0.038		1.54	0.932		mg/Kg	☼	60		49 - 132
Dibenz(a,h)anthracene	<0.038		1.54	0.968		mg/Kg	☼	63		48 - 134
Benzo[g,h,i]perylene	<0.038		1.54	0.831		mg/Kg	☼	54		52 - 125
3 & 4 Methylphenol	<0.19		1.54	1.76		mg/Kg	☼	114		37 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	114	X	25 - 110
Phenol-d5	106		31 - 110
Nitrobenzene-d5	96		25 - 115
2-Fluorobiphenyl	89		25 - 119
2,4,6-Tribromophenol	93		35 - 137
Terphenyl-d14	176	X	36 - 134

Lab Sample ID: 500-107399-1 MSD

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322405

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Phenol	<0.19	F1	1.56	1.67		mg/Kg	☼	107		41 - 110	5	30
Bis(2-chloroethyl)ether	<0.19	F1	1.56	1.79	F1	mg/Kg	☼	115		32 - 110	16	30
1,3-Dichlorobenzene	<0.19		1.56	1.34		mg/Kg	☼	86		44 - 110	12	30
1,4-Dichlorobenzene	<0.19		1.56	1.37		mg/Kg	☼	88		45 - 110	10	30
1,2-Dichlorobenzene	<0.19		1.56	1.35		mg/Kg	☼	87		48 - 110	12	30
2-Methylphenol	<0.19		1.56	1.53		mg/Kg	☼	98		44 - 110	5	30
2,2'-oxybis[1-chloropropane]	<0.19		1.56	1.20		mg/Kg	☼	77		30 - 115	9	30
N-Nitrosodi-n-propylamine	<0.078		1.56	1.50		mg/Kg	☼	96		24 - 123	6	30
Hexachloroethane	<0.19		1.56	1.08		mg/Kg	☼	69		44 - 110	12	30
2-Chlorophenol	<0.19		1.56	1.50		mg/Kg	☼	96		47 - 114	9	30
Nitrobenzene	<0.038		1.56	1.38		mg/Kg	☼	89		35 - 113	7	30
Bis(2-chloroethoxy)methane	<0.19		1.56	1.45		mg/Kg	☼	93		42 - 110	7	30
1,2,4-Trichlorobenzene	<0.19		1.56	1.46		mg/Kg	☼	93		49 - 110	9	30
Isophorone	<0.19		1.56	1.49		mg/Kg	☼	95		35 - 110	7	30
2,4-Dimethylphenol	<0.38		1.56	1.57		mg/Kg	☼	100		49 - 110	5	30
Hexachlorobutadiene	<0.19		1.56	1.40		mg/Kg	☼	90		47 - 114	9	30
Naphthalene	<0.038		1.56	1.41		mg/Kg	☼	91		48 - 110	10	30
2,4-Dichlorophenol	<0.38		1.56	1.51		mg/Kg	☼	97		53 - 113	5	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107399-1 MSD

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322405

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Chloroaniline	<0.78	F1	1.56	1.89	F1	mg/Kg	☼	121	16 - 118	7	30
2,4,6-Trichlorophenol	<0.38		1.56	1.47		mg/Kg	☼	94	44 - 118	1	30
2,4,5-Trichlorophenol	<0.38		1.56	1.39		mg/Kg	☼	89	41 - 120	1	30
Hexachlorocyclopentadiene	<0.78	F1	1.56	<0.78	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	<0.038		1.56	1.40		mg/Kg	☼	89	48 - 110	7	30
2-Nitroaniline	<0.19		1.56	1.39		mg/Kg	☼	89	42 - 122	0	30
2-Chloronaphthalene	<0.19		1.56	1.35		mg/Kg	☼	86	52 - 114	6	30
4-Chloro-3-methylphenol	<0.38		1.56	1.54		mg/Kg	☼	99	52 - 111	2	30
2,6-Dinitrotoluene	<0.19		1.56	1.45		mg/Kg	☼	93	54 - 117	0	30
2-Nitrophenol	<0.38		1.56	1.36		mg/Kg	☼	87	48 - 113	8	30
3-Nitroaniline	<0.38	F2	1.56	1.70	F2	mg/Kg	☼	109	36 - 131	42	30
Dimethyl phthalate	<0.19		1.56	1.46		mg/Kg	☼	93	56 - 113	0	30
2,4-Dinitrophenol	<0.78	F1	3.12	<0.78	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.038		1.56	1.37		mg/Kg	☼	88	49 - 110	4	30
2,4-Dinitrotoluene	<0.19		1.56	1.36		mg/Kg	☼	87	53 - 122	0	30
Acenaphthene	<0.038		1.56	1.25		mg/Kg	☼	80	46 - 110	4	30
Dibenzofuran	<0.19		1.56	1.39		mg/Kg	☼	89	51 - 119	3	30
4-Nitrophenol	<0.78		3.12	2.87		mg/Kg	☼	92	10 - 157	2	30
Fluorene	<0.038		1.56	1.41		mg/Kg	☼	90	47 - 121	2	30
4-Nitroaniline	<0.38		1.56	1.56		mg/Kg	☼	100	28 - 157	17	30
4-Bromophenyl phenyl ether	<0.19		1.56	1.66		mg/Kg	☼	106	55 - 113	1	30
Hexachlorobenzene	<0.078		1.56	1.58		mg/Kg	☼	101	54 - 114	0	30
Diethyl phthalate	<0.19		1.56	1.47		mg/Kg	☼	94	50 - 128	1	30
4-Chlorophenyl phenyl ether	<0.19		1.56	1.44		mg/Kg	☼	92	53 - 117	3	30
Pentachlorophenol	<0.78		3.12	1.46		mg/Kg	☼	47	10 - 124	6	30
N-Nitrosodiphenylamine	<0.19		1.56	1.63		mg/Kg	☼	104	52 - 111	3	30
4,6-Dinitro-2-methylphenol	<0.78	F1	3.12	<0.78	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.0096	J	1.56	1.59		mg/Kg	☼	101	48 - 121	4	30
Anthracene	<0.038		1.56	1.61		mg/Kg	☼	103	48 - 118	5	30
Carbazole	<0.19		1.56	1.74		mg/Kg	☼	111	26 - 188	2	30
Di-n-butyl phthalate	<0.19		1.56	1.68		mg/Kg	☼	108	50 - 128	2	30
Fluoranthene	0.010	J	1.56	1.47		mg/Kg	☼	93	48 - 128	2	30
Pyrene	0.011	J F1	1.56	2.55	F1	mg/Kg	☼	162	46 - 114	1	30
Butyl benzyl phthalate	<0.19	F1	1.56	2.65	F1	mg/Kg	☼	170	49 - 121	2	30
Benzo[a]anthracene	<0.038		1.56	1.57		mg/Kg	☼	101	49 - 121	3	30
Chrysene	<0.038		1.56	1.64		mg/Kg	☼	105	45 - 118	1	30
3,3'-Dichlorobenzidine	<0.19		1.56	0.986		mg/Kg	☼	63	26 - 128	1	30
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.56	2.55	F1	mg/Kg	☼	163	47 - 133	2	30
Di-n-octyl phthalate	<0.19		1.56	1.02		mg/Kg	☼	66	46 - 138	3	30
Benzo[b]fluoranthene	<0.038	F1	1.56	2.15	F1	mg/Kg	☼	138	54 - 122	7	30
Benzo[k]fluoranthene	<0.038	F1	1.56	2.04		mg/Kg	☼	131	44 - 137	7	30
Benzo[a]pyrene	<0.038		1.56	1.69		mg/Kg	☼	108	53 - 122	1	30
Indeno[1,2,3-cd]pyrene	<0.038		1.56	0.933		mg/Kg	☼	60	49 - 132	0	30
Dibenz(a,h)anthracene	<0.038		1.56	0.964		mg/Kg	☼	62	48 - 134	0	30
Benzo[g,h,i]perylene	<0.038		1.56	0.844		mg/Kg	☼	54	52 - 125	2	30
3 & 4 Methylphenol	<0.19		1.56	1.66		mg/Kg	☼	106	37 - 122	6	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107399-1 MSD

Matrix: Solid

Analysis Batch: 323446

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322405

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	108		25 - 110
Phenol-d5	100		31 - 110
Nitrobenzene-d5	90		25 - 115
2-Fluorobiphenyl	84		25 - 119
2,4,6-Tribromophenol	90		35 - 137
Terphenyl-d14	177	X	36 - 134

Lab Sample ID: MB 500-322406/1-A

Matrix: Solid

Analysis Batch: 322830

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 322406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/11/16 07:23	02/15/16 15:36	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322406/1-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/11/16 07:23	02/15/16 15:36	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/11/16 07:23	02/15/16 15:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		25 - 110	02/11/16 07:23	02/15/16 15:36	1
Phenol-d5	94		31 - 110	02/11/16 07:23	02/15/16 15:36	1
Nitrobenzene-d5	93		25 - 115	02/11/16 07:23	02/15/16 15:36	1
2-Fluorobiphenyl	94		25 - 119	02/11/16 07:23	02/15/16 15:36	1
2,4,6-Tribromophenol	80		35 - 137	02/11/16 07:23	02/15/16 15:36	1
Terphenyl-d14	113		36 - 134	02/11/16 07:23	02/15/16 15:36	1

Lab Sample ID: LCS 500-322406/2-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.37		mg/Kg		103	41 - 110
Bis(2-chloroethyl)ether	1.33	1.47		mg/Kg		110	32 - 110
1,3-Dichlorobenzene	1.33	1.34		mg/Kg		101	44 - 110
1,4-Dichlorobenzene	1.33	1.38		mg/Kg		104	45 - 110
1,2-Dichlorobenzene	1.33	1.37		mg/Kg		103	48 - 110
2-Methylphenol	1.33	1.12		mg/Kg		84	44 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322406/2-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2'-oxybis[1-chloropropane]	1.33	1.14		mg/Kg		86	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.39		mg/Kg		104	24 - 123
Hexachloroethane	1.33	1.39		mg/Kg		104	44 - 110
2-Chlorophenol	1.33	1.37		mg/Kg		103	47 - 114
Nitrobenzene	1.33	1.43		mg/Kg		107	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.26		mg/Kg		94	42 - 110
1,2,4-Trichlorobenzene	1.33	1.46		mg/Kg		110	49 - 110
Isophorone	1.33	1.45		mg/Kg		109	35 - 110
2,4-Dimethylphenol	1.33	1.46		mg/Kg		109	49 - 110
Hexachlorobutadiene	1.33	1.52		mg/Kg		114	47 - 114
Naphthalene	1.33	1.43		mg/Kg		107	48 - 110
2,4-Dichlorophenol	1.33	1.47		mg/Kg		110	53 - 113
4-Chloroaniline	1.33	0.736		mg/Kg		55	16 - 118
2,4,6-Trichlorophenol	1.33	1.36		mg/Kg		102	44 - 118
2,4,5-Trichlorophenol	1.33	0.890		mg/Kg		67	41 - 120
Hexachlorocyclopentadiene	1.33	0.397	J	mg/Kg		30	10 - 110
2-Methylnaphthalene	1.33	1.01		mg/Kg		76	48 - 110
2-Nitroaniline	1.33	1.31		mg/Kg		99	42 - 122
2-Chloronaphthalene	1.33	1.29		mg/Kg		97	52 - 114
4-Chloro-3-methylphenol	1.33	1.46		mg/Kg		110	52 - 111
2,6-Dinitrotoluene	1.33	1.15		mg/Kg		86	54 - 117
2-Nitrophenol	1.33	1.48		mg/Kg		111	48 - 113
3-Nitroaniline	1.33	1.27		mg/Kg		95	36 - 131
Dimethyl phthalate	1.33	1.32		mg/Kg		99	56 - 113
2,4-Dinitrophenol	2.67	1.00		mg/Kg		38	10 - 110
Acenaphthylene	1.33	1.32		mg/Kg		99	49 - 110
2,4-Dinitrotoluene	1.33	1.35		mg/Kg		101	53 - 122
Acenaphthene	1.33	1.27		mg/Kg		95	46 - 110
Dibenzofuran	1.33	1.33		mg/Kg		100	51 - 119
4-Nitrophenol	2.67	2.46		mg/Kg		92	10 - 157
Fluorene	1.33	1.29		mg/Kg		97	47 - 121
4-Nitroaniline	1.33	1.70		mg/Kg		128	28 - 157
4-Bromophenyl phenyl ether	1.33	1.19		mg/Kg		89	55 - 113
Hexachlorobenzene	1.33	1.52		mg/Kg		114	54 - 114
Diethyl phthalate	1.33	1.34		mg/Kg		101	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.32		mg/Kg		99	53 - 117
Pentachlorophenol	2.67	1.83		mg/Kg		69	10 - 124
N-Nitrosodiphenylamine	1.33	1.39		mg/Kg		104	52 - 111
4,6-Dinitro-2-methylphenol	2.67	1.86		mg/Kg		70	10 - 110
Phenanthrene	1.33	1.47		mg/Kg		111	48 - 121
Anthracene	1.33	1.15		mg/Kg		86	48 - 118
Carbazole	1.33	1.61		mg/Kg		121	26 - 188
Di-n-butyl phthalate	1.33	1.48		mg/Kg		111	50 - 128
Fluoranthene	1.33	1.48		mg/Kg		111	48 - 128
Pyrene	1.33	1.38		mg/Kg		104	46 - 114
Butyl benzyl phthalate	1.33	1.38		mg/Kg		104	49 - 121
Benzo[a]anthracene	1.33	1.35		mg/Kg		101	49 - 121
Chrysene	1.33	1.36		mg/Kg		102	45 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322406/2-A
Matrix: Solid
Analysis Batch: 322830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
3,3'-Dichlorobenzidine	1.33	1.10		mg/Kg		82	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.40		mg/Kg		105	47 - 133
Di-n-octyl phthalate	1.33	1.45		mg/Kg		109	46 - 138
Benzo[b]fluoranthene	1.33	1.49		mg/Kg		112	54 - 122
Benzo[k]fluoranthene	1.33	1.50		mg/Kg		112	44 - 137
Benzo[a]pyrene	1.33	1.50		mg/Kg		113	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.62		mg/Kg		121	49 - 132
Dibenz(a,h)anthracene	1.33	1.55		mg/Kg		116	48 - 134
Benzo[g,h,i]perylene	1.33	1.56		mg/Kg		117	52 - 125
3 & 4 Methylphenol	1.33	1.48		mg/Kg		111	37 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	90		25 - 110
Phenol-d5	99		31 - 110
Nitrobenzene-d5	101		25 - 115
2-Fluorobiphenyl	96		25 - 119
2,4,6-Tribromophenol	103		35 - 137
Terphenyl-d14	109		36 - 134

Lab Sample ID: 500-107399-21 MS
Matrix: Solid
Analysis Batch: 323350

Client Sample ID: 2746-01-B98 (0-8)
Prep Type: Total/NA
Prep Batch: 322406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19		1.54	1.52		mg/Kg	☼	99	41 - 110
Bis(2-chloroethyl)ether	<0.19		1.54	1.30		mg/Kg	☼	85	32 - 110
1,3-Dichlorobenzene	<0.19		1.54	1.41		mg/Kg	☼	91	44 - 110
1,4-Dichlorobenzene	<0.19		1.54	1.43		mg/Kg	☼	93	45 - 110
1,2-Dichlorobenzene	<0.19		1.54	1.45		mg/Kg	☼	94	48 - 110
2-Methylphenol	<0.19		1.54	1.59		mg/Kg	☼	103	44 - 110
2,2'-oxybis[1-chloropropane]	<0.19		1.54	1.30		mg/Kg	☼	85	30 - 115
N-Nitrosodi-n-propylamine	<0.076		1.54	1.41		mg/Kg	☼	92	24 - 123
Hexachloroethane	<0.19	F1	1.54	0.439	F1	mg/Kg	☼	29	44 - 110
2-Chlorophenol	<0.19		1.54	1.46		mg/Kg	☼	95	47 - 114
Nitrobenzene	<0.038		1.54	1.44		mg/Kg	☼	93	35 - 113
Bis(2-chloroethoxy)methane	<0.19		1.54	1.51		mg/Kg	☼	98	42 - 110
1,2,4-Trichlorobenzene	<0.19		1.54	1.53		mg/Kg	☼	99	49 - 110
Isophorone	<0.19		1.54	1.38		mg/Kg	☼	90	35 - 110
2,4-Dimethylphenol	<0.38		1.54	1.62		mg/Kg	☼	105	49 - 110
Hexachlorobutadiene	<0.19		1.54	1.47		mg/Kg	☼	96	47 - 114
Naphthalene	0.034	J	1.54	1.49		mg/Kg	☼	94	48 - 110
2,4-Dichlorophenol	<0.38		1.54	1.62		mg/Kg	☼	105	53 - 113
4-Chloroaniline	<0.76		1.54	0.709	J	mg/Kg	☼	46	16 - 118
2,4,6-Trichlorophenol	<0.38		1.54	1.35		mg/Kg	☼	88	44 - 118
2,4,5-Trichlorophenol	<0.38		1.54	1.37		mg/Kg	☼	89	41 - 120
Hexachlorocyclopentadiene	<0.76	F1	1.54	<0.77	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	0.11		1.54	1.69		mg/Kg	☼	103	48 - 110
2-Nitroaniline	<0.19		1.54	1.39		mg/Kg	☼	90	42 - 122

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107399-21 MS

Matrix: Solid

Analysis Batch: 323350

Client Sample ID: 2746-01-B98 (0-8)

Prep Type: Total/NA

Prep Batch: 322406

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
2-Chloronaphthalene	<0.19		1.54	1.51		mg/Kg	☼	98	52 - 114
4-Chloro-3-methylphenol	<0.38		1.54	1.58		mg/Kg	☼	103	52 - 111
2,6-Dinitrotoluene	<0.19		1.54	1.28		mg/Kg	☼	83	54 - 117
2-Nitrophenol	<0.38		1.54	1.10		mg/Kg	☼	71	48 - 113
3-Nitroaniline	<0.38		1.54	1.41		mg/Kg	☼	92	36 - 131
Dimethyl phthalate	<0.19		1.54	1.53		mg/Kg	☼	99	56 - 113
2,4-Dinitrophenol	<0.76	F1	3.08	<0.77	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.038		1.54	1.44		mg/Kg	☼	94	49 - 110
2,4-Dinitrotoluene	<0.19		1.54	1.15		mg/Kg	☼	75	53 - 122
Acenaphthene	<0.038		1.54	1.43		mg/Kg	☼	93	46 - 110
Dibenzofuran	<0.19		1.54	1.55		mg/Kg	☼	101	51 - 119
4-Nitrophenol	<0.76		3.08	1.73		mg/Kg	☼	56	10 - 157
Fluorene	0.010	J	1.54	1.38		mg/Kg	☼	89	47 - 121
4-Nitroaniline	<0.38		1.54	1.26		mg/Kg	☼	82	28 - 157
4-Bromophenyl phenyl ether	<0.19	F1	1.54	1.99	F1	mg/Kg	☼	129	55 - 113
Hexachlorobenzene	<0.076		1.54	1.66		mg/Kg	☼	108	54 - 114
Diethyl phthalate	<0.19		1.54	1.58		mg/Kg	☼	102	50 - 128
4-Chlorophenyl phenyl ether	<0.19		1.54	1.55		mg/Kg	☼	100	53 - 117
Pentachlorophenol	<0.76		3.08	0.960		mg/Kg	☼	31	10 - 124
N-Nitrosodiphenylamine	<0.19	F1	1.54	2.26	F1	mg/Kg	☼	147	52 - 111
4,6-Dinitro-2-methylphenol	<0.76	F1	3.08	<0.77	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.094		1.54	1.58		mg/Kg	☼	97	48 - 121
Anthracene	<0.038		1.54	1.53		mg/Kg	☼	100	48 - 118
Carbazole	<0.19		1.54	1.49		mg/Kg	☼	97	26 - 188
Di-n-butyl phthalate	<0.19		1.54	1.68		mg/Kg	☼	109	50 - 128
Fluoranthene	0.054		1.54	0.979		mg/Kg	☼	60	48 - 128
Pyrene	0.16	F1	1.54	2.71	E F1	mg/Kg	☼	166	46 - 114
Butyl benzyl phthalate	<0.19	F1	1.54	2.69	F1	mg/Kg	☼	175	49 - 121
Benzo[a]anthracene	0.033	J	1.54	1.47		mg/Kg	☼	94	49 - 121
Chrysene	0.088		1.54	1.63		mg/Kg	☼	100	45 - 118
3,3'-Dichlorobenzidine	<0.19		1.54	0.538		mg/Kg	☼	35	26 - 128
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.54	2.52	F1	mg/Kg	☼	164	47 - 133
Di-n-octyl phthalate	<0.19	F1	1.54	0.502	F1	mg/Kg	☼	33	46 - 138
Benzo[b]fluoranthene	0.068		1.54	1.65		mg/Kg	☼	103	54 - 122
Benzo[k]fluoranthene	0.027	J	1.54	1.69		mg/Kg	☼	108	44 - 137
Benzo[a]pyrene	0.064		1.54	1.50		mg/Kg	☼	93	53 - 122
Indeno[1,2,3-cd]pyrene	<0.038		1.54	1.58		mg/Kg	☼	103	49 - 132
Dibenz(a,h)anthracene	<0.038		1.54	1.41		mg/Kg	☼	92	48 - 134
Benzo[g,h,i]perylene	0.077		1.54	1.32		mg/Kg	☼	81	52 - 125
3 & 4 Methylphenol	<0.19		1.54	1.51		mg/Kg	☼	98	37 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	91		25 - 110
Phenol-d5	101		31 - 110
Nitrobenzene-d5	88		25 - 115
2-Fluorobiphenyl	93		25 - 119
2,4,6-Tribromophenol	62		35 - 137
Terphenyl-d14	188	X	36 - 134

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Lab Sample ID: 500-107399-21 MSD
Matrix: Solid
Analysis Batch: 323350

Client Sample ID: 2746-01-B98 (0-8)
Prep Type: Total/NA
Prep Batch: 322406

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result					Limits		
Phenol	<0.19		1.57	1.63		mg/Kg	☼	104	41 - 110	7	30
Bis(2-chloroethyl)ether	<0.19		1.57	1.34		mg/Kg	☼	86	32 - 110	3	30
1,3-Dichlorobenzene	<0.19		1.57	1.44		mg/Kg	☼	92	44 - 110	2	30
1,4-Dichlorobenzene	<0.19		1.57	1.45		mg/Kg	☼	92	45 - 110	1	30
1,2-Dichlorobenzene	<0.19		1.57	1.45		mg/Kg	☼	93	48 - 110	0	30
2-Methylphenol	<0.19		1.57	1.65		mg/Kg	☼	105	44 - 110	4	30
2,2'-oxybis[1-chloropropane]	<0.19		1.57	1.34		mg/Kg	☼	86	30 - 115	3	30
N-Nitrosodi-n-propylamine	<0.076		1.57	1.44		mg/Kg	☼	92	24 - 123	2	30
Hexachloroethane	<0.19	F1	1.57	0.396	F1	mg/Kg	☼	25	44 - 110	10	30
2-Chlorophenol	<0.19		1.57	1.52		mg/Kg	☼	97	47 - 114	4	30
Nitrobenzene	<0.038		1.57	1.51		mg/Kg	☼	96	35 - 113	5	30
Bis(2-chloroethoxy)methane	<0.19		1.57	1.57		mg/Kg	☼	100	42 - 110	4	30
1,2,4-Trichlorobenzene	<0.19		1.57	1.59		mg/Kg	☼	101	49 - 110	4	30
Isophorone	<0.19		1.57	1.47		mg/Kg	☼	94	35 - 110	6	30
2,4-Dimethylphenol	<0.38		1.57	1.70		mg/Kg	☼	108	49 - 110	4	30
Hexachlorobutadiene	<0.19		1.57	1.53		mg/Kg	☼	98	47 - 114	4	30
Naphthalene	0.034	J	1.57	1.58		mg/Kg	☼	99	48 - 110	6	30
2,4-Dichlorophenol	<0.38		1.57	1.72		mg/Kg	☼	110	53 - 113	6	30
4-Chloroaniline	<0.76		1.57	0.879		mg/Kg	☼	56	16 - 118	21	30
2,4,6-Trichlorophenol	<0.38		1.57	1.42		mg/Kg	☼	90	44 - 118	5	30
2,4,5-Trichlorophenol	<0.38		1.57	1.33		mg/Kg	☼	85	41 - 120	4	30
Hexachlorocyclopentadiene	<0.76	F1	1.57	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	0.11		1.57	1.76		mg/Kg	☼	105	48 - 110	4	30
2-Nitroaniline	<0.19		1.57	1.43		mg/Kg	☼	91	42 - 122	3	30
2-Chloronaphthalene	<0.19		1.57	1.56		mg/Kg	☼	100	52 - 114	3	30
4-Chloro-3-methylphenol	<0.38		1.57	1.67		mg/Kg	☼	107	52 - 111	6	30
2,6-Dinitrotoluene	<0.19		1.57	1.29		mg/Kg	☼	82	54 - 117	1	30
2-Nitrophenol	<0.38		1.57	1.10		mg/Kg	☼	70	48 - 113	0	30
3-Nitroaniline	<0.38		1.57	1.56		mg/Kg	☼	99	36 - 131	10	30
Dimethyl phthalate	<0.19		1.57	1.58		mg/Kg	☼	101	56 - 113	3	30
2,4-Dinitrophenol	<0.76	F1	3.13	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.038		1.57	1.48		mg/Kg	☼	95	49 - 110	3	30
2,4-Dinitrotoluene	<0.19		1.57	1.10		mg/Kg	☼	70	53 - 122	4	30
Acenaphthene	<0.038		1.57	1.49		mg/Kg	☼	95	46 - 110	4	30
Dibenzofuran	<0.19		1.57	1.57		mg/Kg	☼	100	51 - 119	2	30
4-Nitrophenol	<0.76		3.13	1.87		mg/Kg	☼	60	10 - 157	8	30
Fluorene	0.010	J	1.57	1.43		mg/Kg	☼	90	47 - 121	3	30
4-Nitroaniline	<0.38		1.57	1.35		mg/Kg	☼	86	28 - 157	6	30
4-Bromophenyl phenyl ether	<0.19	F1	1.57	2.06	F1	mg/Kg	☼	132	55 - 113	4	30
Hexachlorobenzene	<0.076		1.57	1.77		mg/Kg	☼	113	54 - 114	6	30
Diethyl phthalate	<0.19		1.57	1.61		mg/Kg	☼	103	50 - 128	2	30
4-Chlorophenyl phenyl ether	<0.19		1.57	1.59		mg/Kg	☼	101	53 - 117	3	30
Pentachlorophenol	<0.76		3.13	1.08		mg/Kg	☼	34	10 - 124	12	30
N-Nitrosodiphenylamine	<0.19	F1	1.57	2.38	F1	mg/Kg	☼	152	52 - 111	5	30
4,6-Dinitro-2-methylphenol	<0.76	F1	3.13	<0.79	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.094		1.57	1.65		mg/Kg	☼	99	48 - 121	4	30
Anthracene	<0.038		1.57	1.57		mg/Kg	☼	100	48 - 118	3	30
Carbazole	<0.19		1.57	1.54		mg/Kg	☼	98	26 - 188	3	30
Di-n-butyl phthalate	<0.19		1.57	1.76		mg/Kg	☼	112	50 - 128	4	30
Fluoranthene	0.054		1.57	0.996		mg/Kg	☼	60	48 - 128	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107399-21 MSD
Matrix: Solid
Analysis Batch: 323350

Client Sample ID: 2746-01-B98 (0-8)
Prep Type: Total/NA
Prep Batch: 322406

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Pyrene	0.16	F1	1.57	2.93	E F1	mg/Kg	☼	177	46 - 114	8	30	
Butyl benzyl phthalate	<0.19	F1	1.57	2.91	E F1	mg/Kg	☼	186	49 - 121	8	30	
Benzo[a]anthracene	0.033	J	1.57	1.59		mg/Kg	☼	99	49 - 121	8	30	
Chrysene	0.088		1.57	1.69		mg/Kg	☼	102	45 - 118	3	30	
3,3'-Dichlorobenzidine	<0.19		1.57	0.732		mg/Kg	☼	47	26 - 128	30	30	
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.57	2.61	F1	mg/Kg	☼	167	47 - 133	4	30	
Di-n-octyl phthalate	<0.19	F1	1.57	0.512	F1	mg/Kg	☼	33	46 - 138	2	30	
Benzo[b]fluoranthene	0.068		1.57	1.61		mg/Kg	☼	98	54 - 122	2	30	
Benzo[k]fluoranthene	0.027	J	1.57	1.66		mg/Kg	☼	104	44 - 137	2	30	
Benzo[a]pyrene	0.064		1.57	1.52		mg/Kg	☼	93	53 - 122	1	30	
Indeno[1,2,3-cd]pyrene	<0.038		1.57	1.66		mg/Kg	☼	106	49 - 132	5	30	
Dibenz(a,h)anthracene	<0.038		1.57	1.44		mg/Kg	☼	92	48 - 134	2	30	
Benzo[g,h,i]perylene	0.077		1.57	1.35		mg/Kg	☼	81	52 - 125	2	30	
3 & 4 Methylphenol	<0.19		1.57	1.65		mg/Kg	☼	106	37 - 122	9	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	99		25 - 110
Phenol-d5	106		31 - 110
Nitrobenzene-d5	93		25 - 115
2-Fluorobiphenyl	97		25 - 119
2,4,6-Tribromophenol	56		35 - 137
Terphenyl-d14	197	X	36 - 134

Method: 6010B - SPLP Metals

Lab Sample ID: LCS 500-323373/2-A
Matrix: Solid
Analysis Batch: 323420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323373

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Lead	0.100	0.101		mg/L		101	80 - 120	

Lab Sample ID: LCSD 500-323373/3-A
Matrix: Solid
Analysis Batch: 323420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 323373

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
		Result	Qualifier							
Lead	0.100	0.0974		mg/L		97	80 - 120	3	20	

Lab Sample ID: LB 500-323295/1-B
Matrix: Solid
Analysis Batch: 323420

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 323373

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 10:15	02/18/16 13:03	1	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-322600/1-A
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Barium	<1.0		1.0	0.18	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Boron	<5.0		5.0	0.70	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Calcium	<20		20	6.4	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Chromium	1.39		1.0	0.17	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Copper	<1.0		1.0	0.22	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Iron	19.5	J	20	7.7	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Lead	<0.50		0.50	0.25	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Magnesium	<10		10	4.1	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Manganese	0.387	J	1.0	0.20	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Nickel	0.422	J	1.0	0.27	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Potassium	<50		50	8.2	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Silver	<0.50		0.50	0.12	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Sodium	<100		100	13	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/12/16 09:13	02/16/16 08:43	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/12/16 09:13	02/16/16 08:43	1

Lab Sample ID: LCS 500-322600/2-A
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	47.5		mg/Kg		95	80 - 120
Arsenic	10.0	9.13		mg/Kg		91	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	5.00	4.80		mg/Kg		96	80 - 120
Boron	100	87.6		mg/Kg		88	80 - 120
Cadmium	5.00	4.67		mg/Kg		93	80 - 120
Calcium	1000	929		mg/Kg		93	80 - 120
Chromium	20.0	21.4		mg/Kg		107	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	113		mg/Kg		113	80 - 120
Lead	10.0	9.13		mg/Kg		91	80 - 120
Magnesium	1000	938		mg/Kg		94	80 - 120
Manganese	50.0	48.0		mg/Kg		96	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Potassium	1000	971		mg/Kg		97	80 - 120
Selenium	10.0	9.15		mg/Kg		92	80 - 120
Silver	5.00	4.71		mg/Kg		94	80 - 120
Sodium	1000	947		mg/Kg		95	80 - 120
Thallium	10.0	9.26		mg/Kg		93	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322600/2-A
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322600
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Vanadium	50.0	49.8		mg/Kg		100	80 - 120
Zinc	50.0	46.1		mg/Kg		92	80 - 120

Lab Sample ID: 500-107399-1 MS
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 322600
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.2	F1 F2	28.5	4.79	F1	mg/Kg	☼	17	75 - 125
Arsenic	5.2	F1	5.70	12.2		mg/Kg	☼	122	75 - 125
Barium	39		114	157		mg/Kg	☼	104	75 - 125
Beryllium	0.74	F1 F2	2.85	3.11		mg/Kg	☼	83	75 - 125
Boron	14	F1 F2	57.0	46.8	F1	mg/Kg	☼	58	75 - 125
Cadmium	<0.12	F1 F2	2.85	2.13		mg/Kg	☼	75	75 - 125
Chromium	21	B	11.4	33.9		mg/Kg	☼	113	75 - 125
Cobalt	9.6	F1 F2	28.5	37.3		mg/Kg	☼	97	75 - 125
Copper	24	F2 F1	14.3	27.8	F1	mg/Kg	☼	25	75 - 125
Iron	19000	B	57.0	25000	4	mg/Kg	☼	10443	75 - 125
Lead	14	F1 F2	5.70	19.1		mg/Kg	☼	89	75 - 125
Magnesium	25000	F2	570	10000	4	mg/Kg	☼	-2567	75 - 125
Manganese	300	F2 B	28.5	238	4	mg/Kg	☼	-209	75 - 125
Nickel	33	F1 F2 B	28.5	58.6		mg/Kg	☼	89	75 - 125
Potassium	2900	F2	570	3590	4	mg/Kg	☼	119	75 - 125
Selenium	0.57	J F1 F2	5.70	4.12	F1	mg/Kg	☼	62	75 - 125
Silver	<0.29	F1 F2	2.85	2.14		mg/Kg	☼	75	75 - 125
Sodium	410	F1	570	745	F1	mg/Kg	☼	58	75 - 125
Thallium	<0.58		5.70	4.64		mg/Kg	☼	81	75 - 125
Vanadium	23	F1 F2	28.5	54.6		mg/Kg	☼	112	75 - 125
Zinc	56	F1	28.5	105	F1	mg/Kg	☼	171	75 - 125

Lab Sample ID: 500-107399-1 MS
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 322600
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	58000	F2	570	11600	4	mg/Kg	☼	-8169	75 - 125

Lab Sample ID: 500-107399-1 MSD
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 322600
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<1.2	F1 F2	23.0	3.16	F1 F2	mg/Kg	☼	14	75 - 125	41	20
Arsenic	5.2	F1	4.60	12.7	F1	mg/Kg	☼	162	75 - 125	4	20
Barium	39		92.0	137		mg/Kg	☼	107	75 - 125	14	20
Beryllium	0.74	F1 F2	2.30	2.42	F1 F2	mg/Kg	☼	73	75 - 125	25	20
Boron	14	F1 F2	46.0	30.5	F1 F2	mg/Kg	☼	37	75 - 125	42	20
Cadmium	<0.12	F1 F2	2.30	1.69	F1 F2	mg/Kg	☼	74	75 - 125	23	20
Chromium	21	B	9.20	29.5		mg/Kg	☼	93	75 - 125	14	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107399-1 MSD

Matrix: Solid

Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322600

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Cobalt	9.6	F1 F2	23.0	50.5	F1 F2	mg/Kg	☼	178	75 - 125	30	20
Copper	24	F2 F1	11.5	37.2	F2	mg/Kg	☼	113	75 - 125	29	20
Iron	19000	B	46.0	24600	4	mg/Kg	☼	12076	75 - 125	2	20
Lead	14	F1 F2	4.60	24.8	F1 F2	mg/Kg	☼	235	75 - 125	26	20
Magnesium	25000	F2	460	6400	4 F2	mg/Kg	☼	-3966	75 - 125	44	20
Manganese	300	F2 B	23.0	1170	E 4 F2	mg/Kg	☼	3780	75 - 125	132	20
Nickel	33	F1 F2 B	23.0	88.8	F1 F2	mg/Kg	☼	242	75 - 125	41	20
Potassium	2900	F2	460	2860	4 F2	mg/Kg	☼	-11	75 - 125	23	20
Selenium	0.57	J F1 F2	4.60	3.22	F1 F2	mg/Kg	☼	57	75 - 125	25	20
Silver	<0.29	F1 F2	2.30	1.60	F1 F2	mg/Kg	☼	69	75 - 125	29	20
Sodium	410	F1	460	634	F1	mg/Kg	☼	48	75 - 125	16	20
Thallium	<0.58		4.60	4.85		mg/Kg	☼	105	75 - 125	5	20
Vanadium	23	F1 F2	23.0	39.5	F1 F2	mg/Kg	☼	73	75 - 125	32	20
Zinc	56	F1	23.0	95.5	F1	mg/Kg	☼	171	75 - 125	9	20

Lab Sample ID: 500-107399-1 MSD

Matrix: Solid

Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322600

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Calcium	58000	F2	460	4430	4 F2	mg/Kg	☼	-1169 0	75 - 125	90	20

Lab Sample ID: 500-107399-1 DU

Matrix: Solid

Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA

Prep Batch: 322600

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<1.2	F1 F2	<1.0		mg/Kg	☼	NC	20
Arsenic	5.2	F1	11.9	F3	mg/Kg	☼	78	20
Barium	39		79.6	F3	mg/Kg	☼	69	20
Beryllium	0.74	F1 F2	0.856		mg/Kg	☼	15	20
Boron	14	F1 F2	11.0	F3	mg/Kg	☼	21	20
Cadmium	<0.12	F1 F2	<0.10		mg/Kg	☼	NC	20
Chromium	21	B	20.5		mg/Kg	☼	2	20
Cobalt	9.6	F1 F2	30.3	F3	mg/Kg	☼	103	20
Copper	24	F2 F1	26.2		mg/Kg	☼	7	20
Iron	19000	B	26200	F3	mg/Kg	☼	32	20
Lead	14	F1 F2	16.3		mg/Kg	☼	15	20
Magnesium	25000	F2	17700	F3	mg/Kg	☼	33	20
Manganese	300	F2 B	548	F3	mg/Kg	☼	59	20
Nickel	33	F1 F2 B	46.5	F3	mg/Kg	☼	33	20
Potassium	2900	F2	2570		mg/Kg	☼	13	20
Selenium	0.57	J F1 F2	0.445	J F5	mg/Kg	☼	25	20
Silver	<0.29	F1 F2	<0.26		mg/Kg	☼	NC	20
Sodium	410	F1	352		mg/Kg	☼	16	20
Thallium	<0.58		0.518	J	mg/Kg	☼	NC	20
Vanadium	23	F1 F2	24.6		mg/Kg	☼	8	20
Zinc	56	F1	68.2		mg/Kg	☼	19	20

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QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Lab Sample ID: 500-107399-1 DU
Matrix: Solid
Analysis Batch: 323046

Client Sample ID: 2746-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 322600

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	58000	F2	39500	F3	mg/Kg	✱	38	20

Lab Sample ID: LCS 500-322718/2-A
Matrix: Solid
Analysis Batch: 323244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.524		mg/L		105	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Boron	1.00	0.988		mg/L		99	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Manganese	0.500	0.526		mg/L		105	80 - 120
Nickel	0.500	0.511		mg/L		102	80 - 120
Selenium	0.100	0.0964		mg/L		96	80 - 120
Silver	0.0500	0.0514		mg/L		103	80 - 120
Zinc	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: LCS 500-322719/2-A
Matrix: Solid
Analysis Batch: 323156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	0.928	J	mg/L		93	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Lead	0.100	0.0991		mg/L		99	80 - 120
Manganese	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: LCS 500-322727/27-A
Matrix: Solid
Analysis Batch: 322927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	2.00	2.07		mg/L		104	80 - 120
Beryllium	0.0500	0.0502		mg/L		100	80 - 120
Boron	1.00	0.965		mg/L		96	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Iron	1.00	1.00		mg/L		100	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.511		mg/L		102	80 - 120
Nickel	0.500	0.507		mg/L		101	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Silver	0.0500	0.0490		mg/L		98	80 - 120
Zinc	0.500	0.495	J	mg/L		99	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322728/24-A
Matrix: Solid
Analysis Batch: 323024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.511		mg/L		102	80 - 120
Beryllium	0.0500	0.0508		mg/L		102	80 - 120
Boron	1.00	0.982	J	mg/L		98	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.517		mg/L		103	80 - 120
Nickel	0.500	0.503		mg/L		101	80 - 120
Selenium	0.100	0.0932		mg/L		93	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120
Zinc	0.500	0.546		mg/L		109	80 - 120

Lab Sample ID: MB 500-322729/1-A
Matrix: Solid
Analysis Batch: 322995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Barium	<1.0		1.0	0.18	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Boron	<5.0		5.0	0.70	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Calcium	13.1	J	20	6.4	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Chromium	0.534	J	1.0	0.17	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Copper	<1.0		1.0	0.22	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Iron	10.4	J	20	7.7	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Lead	<0.50		0.50	0.25	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Magnesium	5.41	J	10	4.1	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Potassium	<50		50	8.2	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Silver	<0.50		0.50	0.12	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Sodium	<100		100	13	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/13/16 13:20	02/15/16 19:07	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/13/16 13:20	02/15/16 19:07	1

Lab Sample ID: LCS 500-322729/2-A
Matrix: Solid
Analysis Batch: 322995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322729/2-A
Matrix: Solid
Analysis Batch: 322995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	9.63		mg/Kg		96	80 - 120
Barium	200	186		mg/Kg		93	80 - 120
Beryllium	5.00	4.58		mg/Kg		92	80 - 120
Boron	100	86.2		mg/Kg		86	80 - 120
Cadmium	5.00	4.55		mg/Kg		91	80 - 120
Calcium	1000	972		mg/Kg		97	80 - 120
Chromium	20.0	20.3		mg/Kg		101	80 - 120
Cobalt	50.0	48.2		mg/Kg		96	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	117		mg/Kg		117	80 - 120
Lead	10.0	9.64		mg/Kg		96	80 - 120
Magnesium	1000	959		mg/Kg		96	80 - 120
Manganese	50.0	46.5		mg/Kg		93	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	954		mg/Kg		95	80 - 120
Selenium	10.0	8.79		mg/Kg		88	80 - 120
Silver	5.00	4.58		mg/Kg		92	80 - 120
Sodium	1000	972		mg/Kg		97	80 - 120
Thallium	10.0	9.16		mg/Kg		92	80 - 120
Vanadium	50.0	50.7		mg/Kg		101	80 - 120
Zinc	50.0	47.2		mg/Kg		94	80 - 120

Lab Sample ID: 500-107399-17 MS
Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)
Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.1	F2 F1	29.8	6.06	F1	mg/Kg	☼	20	75 - 125
Arsenic	4.5		5.95	11.0		mg/Kg	☼	110	75 - 125
Barium	42	F1	119	126	F1	mg/Kg	☼	70	75 - 125
Beryllium	0.54		2.98	2.83		mg/Kg	☼	77	75 - 125
Boron	12	F1	59.5	58.0		mg/Kg	☼	77	75 - 125
Cadmium	<0.11		2.98	2.57		mg/Kg	☼	86	75 - 125
Chromium	16	F1 B	11.9	21.7	F1	mg/Kg	☼	47	75 - 125
Cobalt	11		29.8	37.6		mg/Kg	☼	91	75 - 125
Copper	17		14.9	30.9		mg/Kg	☼	96	75 - 125
Iron	16000	F2 B	59.5	13300	4	mg/Kg	☼	-4968	75 - 125
Lead	10		5.95	15.1		mg/Kg	☼	83	75 - 125
Magnesium	31000	F2 B	595	45200	4	mg/Kg	☼	2360	75 - 125
Manganese	390	F2	29.8	532	4	mg/Kg	☼	491	75 - 125
Nickel	28	F1	29.8	48.4	F1	mg/Kg	☼	70	75 - 125
Potassium	2400	F2	595	3160	4	mg/Kg	☼	122	75 - 125
Selenium	<0.56	F1	5.95	4.75		mg/Kg	☼	80	75 - 125
Silver	<0.28		2.98	2.62		mg/Kg	☼	88	75 - 125
Sodium	180		595	748		mg/Kg	☼	95	75 - 125
Thallium	<0.56	F2	5.95	5.69		mg/Kg	☼	96	75 - 125
Vanadium	18		29.8	41.7		mg/Kg	☼	79	75 - 125
Zinc	47	F1	29.8	66.4	F1	mg/Kg	☼	65	75 - 125

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107399-17 MS

Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)

Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	79000	B F2	595	99200	4	mg/Kg	☼	3459	75 - 125

Lab Sample ID: 500-107399-17 MSD

Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)

Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<1.1	F2 F1	28.4	4.50	F1 F2	mg/Kg	☼	16	75 - 125	30	20
Arsenic	4.5		5.67	9.80		mg/Kg	☼	94	75 - 125	12	20
Barium	42	F1	113	130		mg/Kg	☼	77	75 - 125	3	20
Beryllium	0.54		2.84	2.84		mg/Kg	☼	81	75 - 125	0	20
Boron	12	F1	56.7	53.6	F1	mg/Kg	☼	73	75 - 125	8	20
Cadmium	<0.11		2.84	2.32		mg/Kg	☼	82	75 - 125	10	20
Chromium	16	F1 B	11.3	25.8		mg/Kg	☼	86	75 - 125	17	20
Cobalt	11		28.4	37.4		mg/Kg	☼	94	75 - 125	1	20
Copper	17		14.2	28.2		mg/Kg	☼	81	75 - 125	9	20
Iron	16000	F2 B	56.7	16900	4 F2	mg/Kg	☼	1025	75 - 125	23	20
Lead	10		5.67	15.2		mg/Kg	☼	90	75 - 125	1	20
Magnesium	31000	F2 B	567	29800	4 F2	mg/Kg	☼	-235	75 - 125	41	20
Manganese	390	F2	28.4	382	4 F2	mg/Kg	☼	-15	75 - 125	33	20
Nickel	28	F1	28.4	54.4		mg/Kg	☼	94	75 - 125	12	20
Potassium	2400	F2	567	4010	4 F2	mg/Kg	☼	277	75 - 125	24	20
Selenium	<0.56	F1	5.67	3.97	F1	mg/Kg	☼	70	75 - 125	18	20
Silver	<0.28		2.84	2.18		mg/Kg	☼	77	75 - 125	18	20
Sodium	180		567	676		mg/Kg	☼	87	75 - 125	10	20
Thallium	<0.56	F2	5.67	4.41	F2	mg/Kg	☼	78	75 - 125	25	20
Vanadium	18		28.4	41.8		mg/Kg	☼	83	75 - 125	0	20
Zinc	47	F1	28.4	73.1		mg/Kg	☼	91	75 - 125	10	20

Lab Sample ID: 500-107399-17 MSD

Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)

Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	79000	B F2	567	69700	4 F2	mg/Kg	☼	-1565	75 - 125	35	20

Lab Sample ID: 500-107399-17 DU

Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)

Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<1.1	F2 F1	<1.2		mg/Kg	☼	NC	20
Arsenic	4.5		5.74	F3	mg/Kg	☼	25	20
Barium	42	F1	29.4	F3	mg/Kg	☼	36	20
Beryllium	0.54		0.396	F5	mg/Kg	☼	31	20
Boron	12	F1	11.4		mg/Kg	☼	5	20
Cadmium	<0.11		<0.12		mg/Kg	☼	NC	20
Chromium	16	F1 B	12.0	F3	mg/Kg	☼	29	20
Cobalt	11		8.63	F3	mg/Kg	☼	21	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107399-17 DU
Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)
Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	17		17.6		mg/Kg	☼	6	20
Iron	16000	F2 B	13400		mg/Kg	☼	20	20
Lead	10		10.2		mg/Kg	☼	0.4	20
Magnesium	31000	F2 B	44700	F3	mg/Kg	☼	36	20
Manganese	390	F2	523	F3	mg/Kg	☼	30	20
Nickel	28	F1	21.3	F3	mg/Kg	☼	26	20
Potassium	2400	F2	2000		mg/Kg	☼	20	20
Selenium	<0.56	F1	<0.60		mg/Kg	☼	NC	20
Silver	<0.28		<0.30		mg/Kg	☼	NC	20
Sodium	180		193		mg/Kg	☼	5	20
Thallium	<0.56	F2	<0.60		mg/Kg	☼	NC	20
Vanadium	18		15.8		mg/Kg	☼	15	20
Zinc	47	F1	42.3		mg/Kg	☼	11	20

Lab Sample ID: 500-107399-17 DU
Matrix: Solid
Analysis Batch: 322995

Client Sample ID: 2746-01-B25 (7-14)
Prep Type: Total/NA
Prep Batch: 322729

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	79000	B F2	99900	F3	mg/Kg	☼	24	20

Lab Sample ID: LB 500-322499/1-C
Matrix: Solid
Analysis Batch: 322927

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322727

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/15/16 08:46	02/15/16 11:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/15/16 08:46	02/15/16 11:15	1
Boron	0.488	J	0.50	0.050	mg/L		02/15/16 08:46	02/15/16 11:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/15/16 08:46	02/15/16 11:15	1
Chromium	<0.025		0.025	0.010	mg/L		02/15/16 08:46	02/15/16 11:15	1
Cobalt	<0.025		0.025	0.010	mg/L		02/15/16 08:46	02/15/16 11:15	1
Iron	<0.40		0.40	0.20	mg/L		02/15/16 08:46	02/15/16 11:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/15/16 08:46	02/15/16 11:15	1
Manganese	<0.025		0.025	0.010	mg/L		02/15/16 08:46	02/15/16 11:15	1
Nickel	<0.025		0.025	0.010	mg/L		02/15/16 08:46	02/15/16 11:15	1
Selenium	<0.050		0.050	0.020	mg/L		02/15/16 08:46	02/15/16 11:15	1
Silver	<0.025		0.025	0.010	mg/L		02/15/16 08:46	02/15/16 11:15	1
Zinc	0.0881	J	0.50	0.020	mg/L		02/15/16 08:46	02/15/16 11:15	1

Lab Sample ID: LB 500-322498/1-C
Matrix: Solid
Analysis Batch: 323024

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322728

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	0.0515	J	0.50	0.050	mg/L		02/13/16 13:11	02/15/16 11:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 13:11	02/15/16 11:54	1
Boron	1.08	J	2.0	0.050	mg/L		02/13/16 13:11	02/15/16 11:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 13:11	02/15/16 11:54	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322498/1-C
Matrix: Solid
Analysis Batch: 323024

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322728

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 11:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 11:54	1
Iron	0.325	J	0.40	0.20	mg/L		02/13/16 13:11	02/15/16 11:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 13:11	02/15/16 11:54	1
Manganese	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 11:54	1
Nickel	0.0164	J	0.025	0.010	mg/L		02/13/16 13:11	02/15/16 11:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 13:11	02/15/16 11:54	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 13:11	02/15/16 11:54	1
Zinc	0.170	J	0.50	0.020	mg/L		02/13/16 13:11	02/15/16 11:54	1

Lab Sample ID: 500-107399-20 MS
Matrix: Solid
Analysis Batch: 323024

Client Sample ID: 2746-01A-B01 (0-8)
Prep Type: TCLP
Prep Batch: 322728

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.42	J B	0.500	0.942		mg/L		105	50 - 150
Beryllium	<0.0040		0.0500	0.0517		mg/L		103	50 - 150
Boron	1.3	J F1 B	1.00	1.15	J F1	mg/L		-12	50 - 150
Cadmium	<0.0050		0.0500	0.0514		mg/L		103	50 - 150
Chromium	<0.025		0.200	0.199		mg/L		99	50 - 150
Cobalt	<0.025		0.500	0.500		mg/L		100	50 - 150
Iron	<0.40		1.00	0.961		mg/L		96	50 - 150
Lead	<0.0075		0.100	0.0997		mg/L		100	50 - 150
Manganese	2.0		0.500	2.95	4	mg/L		184	50 - 150
Nickel	0.021	J B	0.500	0.505		mg/L		97	50 - 150
Selenium	<0.050		0.100	0.107		mg/L		107	50 - 150
Silver	<0.025		0.0500	0.0548		mg/L		110	50 - 150
Zinc	0.15	J B	0.500	0.531		mg/L		76	50 - 150

Lab Sample ID: 500-107399-20 DU
Matrix: Solid
Analysis Batch: 323024

Client Sample ID: 2746-01A-B01 (0-8)
Prep Type: TCLP
Prep Batch: 322728

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Barium	0.42	J B	0.431	J	mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	1.3	J F1 B	1.31	J	mg/L		3	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.0		2.10		mg/L		4	20
Nickel	0.021	J B	0.0225	J	mg/L		5	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.15	J B	0.195	J F5	mg/L		26	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322502/1-B
Matrix: Solid
Analysis Batch: 323244

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322718

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/13/16 10:28	02/17/16 07:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/16 10:28	02/17/16 07:19	1
Boron	0.0776	J	0.10	0.050	mg/L		02/13/16 10:28	02/17/16 07:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 10:28	02/17/16 07:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 07:19	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 07:19	1
Iron	<0.20		0.20	0.20	mg/L		02/13/16 10:28	02/17/16 07:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/16 10:28	02/17/16 07:19	1
Manganese	<0.025		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 07:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 07:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/16 10:28	02/17/16 07:19	1
Silver	<0.025		0.025	0.010	mg/L		02/13/16 10:28	02/17/16 07:19	1
Zinc	0.0388	J	0.10	0.020	mg/L		02/13/16 10:28	02/17/16 07:19	1

Lab Sample ID: 500-107399-20 MS
Matrix: Solid
Analysis Batch: 323244

Client Sample ID: 2746-01A-B01 (0-8)
Prep Type: SPLP East
Prep Batch: 322718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Manganese	<0.050		1.00	1.05		mg/L		105	50 - 150

Lab Sample ID: 500-107399-20 DU
Matrix: Solid
Analysis Batch: 323244

Client Sample ID: 2746-01A-B01 (0-8)
Prep Type: SPLP East
Prep Batch: 322718

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
Manganese	<0.050		<0.050		mg/L		NC	20

Lab Sample ID: LB 500-322503/1-B
Matrix: Solid
Analysis Batch: 323156

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322719

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.952	J	2.0	0.050	mg/L		02/13/16 10:35	02/17/16 00:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/16 10:35	02/17/16 00:37	1
Lead	0.0174	J	0.050	0.0075	mg/L		02/13/16 10:35	02/17/16 00:37	1
Manganese	<0.025		0.025	0.010	mg/L		02/13/16 10:35	02/17/16 00:37	1

Lab Sample ID: 500-107399-21 MS
Matrix: Solid
Analysis Batch: 323156

Client Sample ID: 2746-01-B98 (0-8)
Prep Type: SPLP East
Prep Batch: 322719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Boron	1.2	J F1 B	1.00	1.24	J F1	mg/L		6	50 - 150
Manganese	0.59	F1	0.500	1.38	F1	mg/L		159	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107399-21 DU

Matrix: Solid

Analysis Batch: 323156

Client Sample ID: 2746-01-B98 (0-8)

Prep Type: SPLP East

Prep Batch: 322719

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.2	J F1 B	1.19	J	mg/L		2	20
Manganese	0.59	F1	0.613		mg/L		4	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-322727/27-A

Matrix: Solid

Analysis Batch: 323009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.461		mg/L		92	80 - 120	
Thallium	0.100	0.0995		mg/L		100	80 - 120	

Lab Sample ID: LCS 500-322728/24-A

Matrix: Solid

Analysis Batch: 323009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.500	0.481		mg/L		96	80 - 120	
Thallium	0.100	0.104		mg/L		104	80 - 120	

Lab Sample ID: LB 500-322499/1-C

Matrix: Solid

Analysis Batch: 323009

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 322727

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/15/16 08:46	02/15/16 16:02	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/15/16 08:46	02/15/16 16:02	1

Lab Sample ID: LB 500-322498/1-C

Matrix: Solid

Analysis Batch: 323009

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 322728

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/13/16 13:11	02/15/16 13:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/13/16 13:11	02/15/16 13:58	1

Lab Sample ID: 500-107399-20 MS

Matrix: Solid

Analysis Batch: 323009

Client Sample ID: 2746-01A-B01 (0-8)

Prep Type: TCLP

Prep Batch: 322728

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qualifier					
Antimony	<0.0060		0.500	0.440		mg/L		88	50 - 150	
Thallium	<0.0020		0.100	0.0946		mg/L		95	50 - 150	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107399-20 DU
Matrix: Solid
Analysis Batch: 323009

Client Sample ID: 2746-01A-B01 (0-8)
Prep Type: TCLP
Prep Batch: 322728

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-322652/12-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:28	1

Lab Sample ID: LCS 500-322652/13-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322652
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00189		mg/L		95	80 - 120

Lab Sample ID: MB 500-322659/12-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:23	1

Lab Sample ID: LCS 500-322659/13-A
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322659
%Rec. Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: LB 500-322498/1-B
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322652

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 15:32	1

Lab Sample ID: 500-107399-2 MS
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-01-B35 (0-8)
Prep Type: TCLP
Prep Batch: 322652
%Rec. Limits

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000776		mg/L		78	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-107399-2 DU
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-01-B35 (0-8)
Prep Type: TCLP
Prep Batch: 322652

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: LB 500-322499/1-B
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322659

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/12/16 15:50	02/14/16 16:27	1

Lab Sample ID: 500-107399-22 MS
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-01-B99 (0-8)
Prep Type: TCLP
Prep Batch: 322659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000652		mg/L		65	50 - 150

Lab Sample ID: 500-107399-22 DU
Matrix: Solid
Analysis Batch: 322866

Client Sample ID: 2746-01-B99 (0-8)
Prep Type: TCLP
Prep Batch: 322659

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-322784/12-A
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/14/16 19:45	02/15/16 10:44	1

Lab Sample ID: LCS 500-322784/13-A
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.168		mg/Kg		101	80 - 120

Lab Sample ID: 500-107399-1 MS
Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01-B36 (0-8)
Prep Type: Total/NA
Prep Batch: 322784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.030		0.0968	0.111		mg/Kg	☼	84	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-107399-1 MSD

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA
Prep Batch: 322784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.030		0.0921	0.113		mg/Kg	☼	90	75 - 125	2	20

Lab Sample ID: 500-107399-1 DU

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01-B36 (0-8)

Prep Type: Total/NA
Prep Batch: 322784

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.030		0.0318		mg/Kg	☼	6	20

Lab Sample ID: MB 500-322785/12-A

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 322785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/14/16 19:45	02/15/16 11:50	1

Lab Sample ID: LCS 500-322785/13-A

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 322785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.166		mg/Kg		99	80 - 120

Lab Sample ID: 500-107399-21 MS

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01-B98 (0-8)

Prep Type: Total/NA
Prep Batch: 322785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.022		0.0932	0.104		mg/Kg	☼	88	75 - 125

Lab Sample ID: 500-107399-21 MSD

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01-B98 (0-8)

Prep Type: Total/NA
Prep Batch: 322785

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.022		0.0865	0.0969		mg/Kg	☼	86	75 - 125	7	20

Lab Sample ID: 500-107399-21 DU

Matrix: Solid
Analysis Batch: 322907

Client Sample ID: 2746-01-B98 (0-8)

Prep Type: Total/NA
Prep Batch: 322785

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.022		0.0196		mg/Kg	☼	12	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Method: 9045D - pH

Lab Sample ID: 500-107399-11 DU
Matrix: Solid
Analysis Batch: 322684

Client Sample ID: 2746-01-B28 (0-8)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.77		7.740		SU		0.4	

Lab Sample ID: 500-107399-30 DU
Matrix: Solid
Analysis Batch: 322684

Client Sample ID: 2746-01-B108 (0-8)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.92		8.900		SU		0.2	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Date Collected: 02/09/16 08:50

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 07:32	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:14	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:06	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:34	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 13:38		
					(End)	02/12/16 13:42		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B36 (0-8)

Lab Sample ID: 500-107399-1

Date Collected: 02/09/16 08:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 14:19	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/18/16 22:26	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 05:17	PJ1	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 09:16	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 10:52	MJD	TAL CHI

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 07:39	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:21	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:10	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:36	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 13:42		
					(End)	02/12/16 13:46		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B35 (0-8)

Lab Sample ID: 500-107399-2

Date Collected: 02/09/16 09:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 14:44	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/18/16 22:52	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 05:49	PJ1	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 09:37	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:01	MJD	TAL CHI

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:27	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:14	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 13:46		
					(End)	02/12/16 13:50		

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B34 (0-8)

Lab Sample ID: 500-107399-3

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 15:09	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/18/16 23:18	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 05:54	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:03	MJD	TAL CHI

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Date Collected: 02/09/16 09:50

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:09	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:34	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:18	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 13:50		
					(End)	02/12/16 13:55		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B33 (0-8)

Lab Sample ID: 500-107399-4

Date Collected: 02/09/16 09:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 15:34	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/18/16 23:44	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 05:59	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:05	MJD	TAL CHI

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:18	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:41	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:24	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 13:55 (End) 02/12/16 13:59	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B32 (0-8)

Lab Sample ID: 500-107399-5

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 15:59	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 00:10	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:04	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:08	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Date Collected: 02/09/16 10:30

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:25	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:48	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:28	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:51	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 13:59 (End) 02/12/16 14:03	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B31 (0-8)

Lab Sample ID: 500-107399-6

Date Collected: 02/09/16 10:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 16:24	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323785	02/21/16 17:53	GES	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:09	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:10	MJD	TAL CHI

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:32	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 12:54	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323009	02/15/16 14:32	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:53	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:03 (End) 02/12/16 14:08	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B30 (0-8)

Lab Sample ID: 500-107399-7

Date Collected: 02/09/16 10:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 16:49	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 00:36	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:14	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:16	MJD	TAL CHI

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Date Collected: 02/09/16 11:10

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:39	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:17	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:36	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:55	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:08 (End) 02/12/16 14:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (0-7)

Lab Sample ID: 500-107399-8

Date Collected: 02/09/16 11:10

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 17:14	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 01:01	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:27	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:18	MJD	TAL CHI

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:46	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:24	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:48	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:57	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:12 (End) 02/12/16 14:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 17:39	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 01:27	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:32	PJ1	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 10:14	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B29 (7-14)

Lab Sample ID: 500-107399-9

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:20	MJD	TAL CHI

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Date Collected: 02/09/16 11:20

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:52	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:31	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:52	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 15:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 14:16		
					(End)	02/12/16 14:21		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B29 (14-20)

Lab Sample ID: 500-107399-10

Date Collected: 02/09/16 11:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 18:04	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 01:53	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:37	PJ1	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323046	02/16/16 10:18	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:22	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B28 (0-8)

Lab Sample ID: 500-107399-11

Date Collected: 02/09/16 11:40

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 08:59	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:37	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 14:56	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 14:21		
					(End)	02/12/16 14:25		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B28 (0-8)

Lab Sample ID: 500-107399-11

Date Collected: 02/09/16 11:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 18:29	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 02:19	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:42	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:24	MJD	TAL CHI

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 09:06	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:44	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323009	02/15/16 15:00	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:29 (End) 02/12/16 14:33	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B27 (0-8)

Lab Sample ID: 500-107399-12

Date Collected: 02/09/16 12:05

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 18:54	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 02:45	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:47	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:26	MJD	TAL CHI

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 09:13	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:51	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:04	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:04	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:33 (End) 02/12/16 14:38	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B26 (0-8)

Lab Sample ID: 500-107399-13

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 11:45	BDW	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 03:11	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:52	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:29	MJD	TAL CHI

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 09:37	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 13:58	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:09	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:10	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:38 (End) 02/12/16 14:42	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B26 (0-8)D

Lab Sample ID: 500-107399-14

Date Collected: 02/09/16 12:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323039	02/16/16 19:44	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 03:37	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 06:57	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:31	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Date Collected: 02/09/16 13:50

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 09:44	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 14:04	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:13	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:12	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 14:42		
					(End)	02/12/16 14:46		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B24 (0-5)

Lab Sample ID: 500-107399-15

Date Collected: 02/09/16 13:50

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/16/16 22:06	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 04:03	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 07:02	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:33	MJD	TAL CHI

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 09:51	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 14:11	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323009	02/15/16 15:17	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:14	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:46 (End) 02/12/16 14:51	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B25 (0-7)

Lab Sample ID: 500-107399-16

Date Collected: 02/09/16 14:20

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/16/16 22:32	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 04:28	AJD	TAL CHI
Total/NA	Prep	3050B			322600	02/12/16 09:13	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323046	02/16/16 07:07	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:36	MJD	TAL CHI

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Date Collected: 02/09/16 14:25

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 09:58	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 14:18	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:21	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 14:51 (End) 02/12/16 14:55	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (7-14)

Lab Sample ID: 500-107399-17

Date Collected: 02/09/16 14:25

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/16/16 22:57	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 04:54	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 19:35	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322995	02/16/16 00:26	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:42	MJD	TAL CHI

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 10:04	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 14:40	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:25	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:17	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 14:55		
					(End)	02/12/16 14:59		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/16/16 23:22	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 05:20	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:11	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B25 (14-20)

Lab Sample ID: 500-107399-18

Date Collected: 02/09/16 14:40

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322995	02/16/16 00:55	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:44	MJD	TAL CHI

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Date Collected: 02/09/16 12:55

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 10:11	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 14:47	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:41	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 14:59		
					(End)	02/12/16 15:04		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01A-B02 (0-8)

Lab Sample ID: 500-107399-19

Date Collected: 02/09/16 12:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/16/16 23:47	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 05:46	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:16	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:46	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Date Collected: 02/09/16 13:15

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322502	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322718	02/13/16 10:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323244	02/17/16 10:18	KML	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 14:54	PJ1	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	3010A			322728	02/13/16 13:11	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 15:45	PFK	TAL CHI
TCLP	Leach	1311			322498	02/11/16 14:00	FXG	TAL CHI
TCLP	Prep	7470A			322652	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:04		
					(End)	02/12/16 15:08		
Total/NA	Analysis	Moisture		1	322355	02/10/16 14:43	LWN	TAL CHI

Client Sample ID: 2746-01A-B01 (0-8)

Lab Sample ID: 500-107399-20

Date Collected: 02/09/16 13:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 00:12	PMF	TAL CHI
Total/NA	Prep	3541			322405	02/11/16 07:18	STW	TAL CHI
Total/NA	Analysis	8270D		1	323446	02/19/16 06:12	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:21	PJ1	TAL CHI
Total/NA	Prep	7471B			322784	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:48	MJD	TAL CHI

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 00:50	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 14:26	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323009	02/15/16 16:14	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 15:08 (End) 02/12/16 15:12	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B98 (0-8)

Lab Sample ID: 500-107399-21

Date Collected: 02/09/16 09:14

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 00:37	PMF	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323350	02/18/16 13:56	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:26	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322995	02/16/16 01:07	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 11:53	MJD	TAL CHI

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 01:33	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:26	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:18	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:34	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322684	02/12/16 15:12 (Start) 02/12/16 15:16 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B99 (0-8)

Lab Sample ID: 500-107399-22

Date Collected: 02/09/16 09:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 12:10	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323350	02/18/16 14:21	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:31	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322995	02/16/16 01:11	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:18	MJD	TAL CHI

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 01:40	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:31	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:30	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:40	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	02/12/16 15:16 (Start) 02/12/16 15:21 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)

Lab Sample ID: 500-107399-23

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 01:26	PMF	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323350	02/18/16 14:45	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:36	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322995	02/16/16 01:15	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:20	MJD	TAL CHI

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 01:47	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:36	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:34	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:42	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:21		
					(End)	02/12/16 15:25		
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 01:52	PMF	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/19/16 21:08	GES	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:41	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B100 (0-8)D

Lab Sample ID: 500-107399-24

Date Collected: 02/09/16 10:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	322995	02/16/16 01:20	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:22	MJD	TAL CHI

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 01:54	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:41	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:39	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:25		
					(End)	02/12/16 15:29		
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B101 (0-8)

Lab Sample ID: 500-107399-25

Date Collected: 02/09/16 11:15

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 12:36	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/19/16 21:33	GES	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 20:46	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:31	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:24	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Date Collected: 02/09/16 11:32

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:00	PJ1	TAL CHI
SPLP East	Leach	1312			323295	02/17/16 15:25	FXG	TAL CHI
SPLP East	Prep	3010A			323373	02/18/16 10:15	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323420	02/18/16 13:30	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:47	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:43	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:29		
					(End)	02/12/16 15:34		
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B102 (0-8)

Lab Sample ID: 500-107399-26

Date Collected: 02/09/16 11:32

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 13:01	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323350	02/18/16 15:58	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:00	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:35	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:26	MJD	TAL CHI

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:07	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323295	02/17/16 15:25	FXG	TAL CHI
SPLP East	Prep	3010A			323373	02/18/16 10:15	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323420	02/18/16 13:36	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:52	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:47	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:34		
					(End)	02/12/16 15:38		
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B103 (0-8)

Lab Sample ID: 500-107399-27

Date Collected: 02/09/16 11:55

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 13:27	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/19/16 23:35	GES	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:05	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:39	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:28	MJD	TAL CHI

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:14	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 13:57	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:51	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:49	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	(Start) 02/12/16 15:38 (End) 02/12/16 15:42	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B104 (0-8)

Lab Sample ID: 500-107399-28

Date Collected: 02/09/16 12:01

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 13:52	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323350	02/18/16 16:22	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:10	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:43	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:30	MJD	TAL CHI

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:21	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 14:02	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:55	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:55	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322684	02/12/16 15:42 (Start) 02/12/16 15:47 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B105 (0-8)

Lab Sample ID: 500-107399-29

Date Collected: 02/09/16 13:00

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 14:18	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323350	02/18/16 16:47	AJD	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:15	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:47	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:33	MJD	TAL CHI

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:27	PJ1	TAL CHI
SPLP East	Leach	1312			323295	02/17/16 15:25	FXG	TAL CHI
SPLP East	Prep	3010A			323373	02/18/16 10:15	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323420	02/18/16 13:43	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 14:08	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 16:59	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684	02/12/16 15:47 (Start) 02/12/16 15:51 (End)	SMO	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B108 (0-8)

Lab Sample ID: 500-107399-30

Date Collected: 02/09/16 13:12

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 04:21	PMF	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/19/16 23:59	GES	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:20	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:51	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:35	MJD	TAL CHI

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Date Collected: 02/09/16 13:22

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:34	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 14:13	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 17:03	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 16:59	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:55		
					(End)	02/12/16 15:59		
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B107 (0-8)

Lab Sample ID: 500-107399-31

Date Collected: 02/09/16 13:22

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 14:44	BDW	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/20/16 00:24	GES	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:25	PJ1	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 17:56	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:37	MJD	TAL CHI

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322503	02/11/16 15:00	RA	TAL CHI
SPLP East	Prep	3010A			322719	02/13/16 10:35	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323156	02/17/16 02:57	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6010B		1	322927	02/15/16 14:32	PJ1	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	3010A			322727	02/13/16 12:56	JNH	TAL CHI
TCLP	Analysis	6020A		1	323009	02/15/16 17:07	PFK	TAL CHI
TCLP	Leach	1311			322499	02/11/16 14:00	RA	TAL CHI
TCLP	Prep	7470A			322659	02/12/16 15:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	322866	02/14/16 17:02	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322684		SMO	TAL CHI
					(Start)	02/12/16 15:59		
					(End)	02/12/16 16:04		
Total/NA	Analysis	Moisture		1	322403	02/11/16 07:23	LWN	TAL CHI

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322942	02/10/16 17:25	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 05:12	PMF	TAL CHI
Total/NA	Prep	3541			322406	02/11/16 07:23	STW	TAL CHI
Total/NA	Analysis	8270D		1	323575	02/19/16 23:10	GES	TAL CHI
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		1	322995	02/15/16 21:30	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Client Sample ID: 2746-01-B106 (0-8)

Lab Sample ID: 500-107399-32

Date Collected: 02/09/16 13:30

Matrix: Solid

Date Received: 02/09/16 16:16

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322729	02/13/16 13:20	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323150	02/16/16 18:00	PJ1	TAL CHI
Total/NA	Prep	7471B			322785	02/14/16 19:45	MJD	TAL CHI
Total/NA	Analysis	7471B		1	322907	02/15/16 12:43	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107399-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: DT
Company: SC
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107399

Chain of Custody Number: E605-21

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments				
EE		1009341-0005-01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other				
Project Name		Lab Project #		Date		Time		# of Containers		Matrix				
I90		50011816												
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix				
Cook County, IL		50011816												
Sampler		Lab PM		Date		Time		# of Containers		Matrix				
S. Cooper		D. Wright												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total THM	Asbestos	TCDF/PCDF	THM	Asbestos	PH/8 Solids
11		2746-01-B28(0-8)	2-9-16	1146	2 S		X	X	X	X	X	X	X	
12		2746-01-B27(0-8)	2-9-16	1205	2 S		X	X	X	X	X	X	X	
13		2746-01-B26(0-8)	2-9-16	1225	2 S		X	X	X	X	X	X	X	
14		2746-01-B26(0-8)D	2-9-16	1225	2 S		X	X	X	X	X	X	X	
15		2746-01-B24(0-3)	2-9-16	1350	2 S		X	X	X	X	X	X	X	
16		2746-01-B25(0-7)	2-9-16	1420	2 S		X	X	X	X	X	X	X	
17		2746-01-B25(1-14)	2-9-16	1425	2 S		X	X	X	X	X	X	X	
18		2746-01-B25(1-42)	2-9-16	1440	2 S		X	X	X	X	X	X	X	
			2-9-16											

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<i>[Signature]</i>	EE	2-9-16	1525	<i>[Signature]</i>	TAL	2/9/16	1525
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
<i>[Signature]</i>	TAL	2/9/16	1616	<i>[Signature]</i>	TAL	02/09/16	1616
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier

Shipped

Hand Delivered

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)
 Contact: DT
 Company: S.
 Address: _____
 Address: _____
 Address: _____
 Phone: _____
 Phone: _____
 Fax: _____
 Fax: _____
 E-Mail: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107399
 Chain of Custody Number: EP-22
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Parameter									
Project Location/State		Lab Project #											
Sampler		Lab Project #											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix							Comments
			Date	Time									
19		2746-01A-302(0-8)	2-9-16	1255	2	S	X	X	X	X	X		
20		2746-01A-301(0-8)	2-9-16	1315	2	S	X	X	X	X	X		
2746													

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>[Signature]</u> Company <u>EE</u> Date <u>2/9/16</u> Time <u>1325</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>2/9/16</u> Time <u>1325</u>	Lab Courier <input checked="" type="checkbox"/>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>2/9/16</u> Time <u>1616</u>	Received By <u>[Signature]</u> Company <u>TAL</u> Date <u>02/09/16</u> Time <u>1616</u>	Shipped <input type="checkbox"/>
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered <input type="checkbox"/>

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107399
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
E+E		100934.0005.01									
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
I-90		50011818									
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
Cook County, IL		Dick Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total TAL Metals	TCLP/SLP Metals	PH/Percent Solids
21		2746-01-B98(0-8)	2/9/16	0914	2	S	X	X	X	X	X
22		2746-01-B94(0-8)	2/9	0930	2	S	X	X	X	X	X
23		2746-01-B100(0-8)	2/9	1015	2	S	X	X	X	X	X
24		2746-01-B100(0-8)D	2/9	1015	2	S	X	X	X	X	X
25		2746-01-B101(0-8)	2/9	1115	2	S	X	X	X	X	X
26		2746-01-B102(0-8)	2/9	1132	2	S	X	X	X	X	X
27		2746-01-B103(0-8)	2/9	1155	2	S	X	X	X	X	X
28		2746-01-B104(0-8)	2/9	1210	2	S	X	X	X	X	X
29		2746-01-B105(0-8)	2/9	1300	2	S	X	X	X	X	X
30		2746-01-B108(0-8)	2/9	1312	2	S	X	X	X	X	X

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date _____

Sample Disposal Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>V. Hughes</u> Company: <u>E+E</u> Date: <u>2/9/16</u> Time: <u>1525</u>	Received By: <u>N. New</u> Company: <u>TA</u> Date: <u>2/9/16</u> Time: <u>1525</u>
Relinquished By: <u>N. New</u> Company: <u>TA</u> Date: <u>2/9/16</u> Time: <u>1616</u>	Received By: <u>Sm/K</u> Company: <u>TAL</u> Date: <u>02/09/16</u> Time: <u>1616</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier:

Shipped:

Hand Delivered:

- Matrix Key
- | | |
|--------------------|---------------------|
| WW - Wastewater | SE - Sediment |
| W - Water | SO - Soil |
| S - Soil | L - Leachate |
| SL - Sludge | WI - Wipe |
| MS - Miscellaneous | DW - Drinking Water |
| OL - Oil | O - Other |
| A - Air | |

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107399

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Comments				
E+E		1009341.0005.01										
Project Name		Lab Project #		# of Containers		Matrix						
I-90		500118										
Project Location/State		Lab PM		Date		Time						
Cook County, IL		Dick Wright										
Lab ID	MS/MSD	Sample ID	Sampling		VOC	SVOC	Total TAL	Metals	TCLP/SPLP	Metals	pH/Percent	Solids
			Date	Time								
31		2746-01-B107(0-8)	2/9	1322	2	5	X	X	X	X	X	
32		2746-01-B106(0-8)	2/9	1330	2	5	X	X	X	X	X	

- Preservative Key**
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date: _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>J. Hughes</u> Company: <u>E+E</u> Date: <u>2/9/16</u> Time: <u>1325</u>	Received By: <u>L. Neal</u> Company: <u>TA</u> Date: <u>2/9/16</u> Time: <u>1325</u>	Lab Courier: <input checked="" type="checkbox"/>
Relinquished By: <u>L. Neal</u> Company: <u>TA</u> Date: <u>2/9/16</u> Time: <u>1316</u>	Received By: <u>SK</u> Company: <u>TAL</u> Date: <u>02/09/16</u> Time: <u>1616</u>	Shipped: <input type="checkbox"/>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: <input type="checkbox"/>

- Matrix Key**
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107399-1

Login Number: 107399

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	(3.6)(2.8)(3.3)c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107457-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/22/2016 2:26:29 PM

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LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Job ID: 500-107457-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107457-1

Comments

No additional comments.

Receipt

The samples were received on 2/11/2016 7:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 500-323072 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01B-B02 (0-3) (500-107457-1), 2746-01B-B01 (0-8) (500-107457-2), 2746-01B-B01 (0-8)D (500-107457-3), 2746-01-B42 (0-6) (500-107457-4), 2746-01-B41 (0-5) (500-107457-6), 2746-01-B21 (0-7) (500-107457-11), 2746-01-B21 (7-14) (500-107457-12), 2746-01-B20 (0-7) (500-107457-13), 2746-01-B20 (7-14) (500-107457-14), 2746-01-B20 (14-20) (500-107457-15), (MB 500-322677/1-A), (500-107457-E-1-B MS) and (500-107457-E-1-C MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: 2746-01B-B02 (0-3) (500-107457-1), (500-107457-E-1-B MS) and (500-107457-E-1-C MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for preparation batch 500-322859 and analytical batch 500-323151 contained Calcium, Chromium, and Magnesium above the reporting limit (RL). Associated sample 2746-01B-B02 (0-3) (500-107457-1), 2746-01B-B01 (0-8) (500-107457-2), 2746-01B-B01 (0-8)D (500-107457-3), 2746-01-B42 (0-6) (500-107457-4), 2746-01-B42 (6-11) (500-107457-5), 2746-01-B41 (0-5) (500-107457-6), 2746-01-B41 (5-10) (500-107457-7), 2746-01-B40 (0-8) (500-107457-8), 2746-01-B39 (0-8) (500-107457-9), 2746-01-B38 (0-8) (500-107457-10), 2746-01-B21 (0-7) (500-107457-11), 2746-01-B21 (7-14) (500-107457-12), 2746-01-B20 (0-7) (500-107457-13), 2746-01-B20 (7-14) (500-107457-14) and 2746-01-B20 (14-20) (500-107457-15) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6020A: The continuing calibration verification (CCV) associated with batch 500-323182 recovered above the upper control limit for Antimony at 111%rec. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B02 (0-3)

Lab Sample ID: 500-107457-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.016	0.0031	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.061	J	0.18	0.027	mg/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	0.17	J	0.18	0.033	mg/Kg	5	☼	8270D	Total/NA
Acenaphthene	0.046	J	0.18	0.032	mg/Kg	5	☼	8270D	Total/NA
Fluorene	0.070	J	0.18	0.025	mg/Kg	5	☼	8270D	Total/NA
Phenanthrene	0.65		0.18	0.025	mg/Kg	5	☼	8270D	Total/NA
Anthracene	0.094	J	0.18	0.030	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene	0.62		0.18	0.033	mg/Kg	5	☼	8270D	Total/NA
Pyrene	1.4	F1	0.18	0.035	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	0.33		0.18	0.024	mg/Kg	5	☼	8270D	Total/NA
Chrysene	0.53		0.18	0.048	mg/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.59		0.18	0.038	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.22		0.18	0.052	mg/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	0.36		0.18	0.034	mg/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.18	0.046	mg/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.10	J	0.18	0.034	mg/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.29		0.18	0.057	mg/Kg	5	☼	8270D	Total/NA
Antimony	0.19	J F1	0.94	0.19	mg/Kg	1	☼	6010B	Total/NA
Arsenic	1.8		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	11		0.47	0.086	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.15	J	0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.3	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.035	J	0.094	0.027	mg/Kg	1	☼	6010B	Total/NA
Calcium	170000	B	94	30	mg/Kg	10	☼	6010B	Total/NA
Chromium	5.5	B	0.47	0.081	mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.4		0.23	0.053	mg/Kg	1	☼	6010B	Total/NA
Copper	5.1		0.47	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	3600	B	9.4	3.6	mg/Kg	1	☼	6010B	Total/NA
Lead	3.9	F1	0.23	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	99000	B	47	19	mg/Kg	10	☼	6010B	Total/NA
Manganese	160		0.47	0.093	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.1		0.47	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	520	F1	23	3.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	580	F1 B	47	6.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		0.23	0.068	mg/Kg	1	☼	6010B	Total/NA
Zinc	15	F1	0.94	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.18	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.082	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
pH	11.0		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.044		0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.13		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0072	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.088		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.052		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8) (Continued)

Lab Sample ID: 500-107457-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.040		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.0		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.46	0.083	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Calcium	58000	B	91	29	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.46	0.078	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.46	0.099	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	9.1	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	4.6	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.46	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.46	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.46	0.23	mg/Kg	1	☼	6010B	Total/NA
Sodium	590	B	46	6.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.46	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.23	0.067	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		0.91	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.086	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.010	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.027	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.59		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.047		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.13		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0074	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.098		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.039		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.13		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.021	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.058		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	62000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.50	0.086	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)D (Continued)

Lab Sample ID: 500-107457-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	17000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.50	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	830	B	50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.027	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.015	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.41		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.045		0.036	0.0056	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.18		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0070	J	0.036	0.0048	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0075	J	0.036	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0082	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.073		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.011	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.040		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.018	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.026	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.8		0.49	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.49	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.032	J	0.097	0.028	mg/Kg	1	☼	6010B	Total/NA
Calcium	66000	B	97	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.49	0.084	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	9.7	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.49	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	820	B	49	6.4	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (0-6) (Continued)

Lab Sample ID: 500-107457-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	18		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.072	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.033		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.13		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.25		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.046		0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.14		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0071	J	0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.013	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.031	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.6		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	230	B	54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	52		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.097	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.038		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.021	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.016	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.054		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0077	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.096		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.013	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.091		0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.012	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.048		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.087		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.0		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	41		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.034	J	0.12	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	87000	B	120	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.58	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	34000	B	5.8	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	58	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.060	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.031		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.57		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.22		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.060		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.16		0.039	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0095	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.010	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.027	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.029	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.9		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	57		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (5-10) (Continued)

Lab Sample ID: 500-107457-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	14		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	440		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	420	B	59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.29	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.080	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.26		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.022	J	0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.070		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0069	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.090		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0077	J	0.037	0.0061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.051		0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.075		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.028	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.054		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.052		0.037	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.011	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.044		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.3		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.50	0.092	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.039	J	0.10	0.029	mg/Kg	1	☼	6010B	Total/NA
Calcium	72000	B	100	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.50	0.086	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	100		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B40 (0-8) (Continued)

Lab Sample ID: 500-107457-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	30000	B	5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.50	0.099	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2700		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.33	J	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000	B	50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.069	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.15		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.74		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.039		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.35		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.039		0.039	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.12		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0077	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.097		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.048		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0067	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.037	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.030	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.070	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	350		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	3000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.65		0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	660	B	58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B39 (0-8) (Continued)

Lab Sample ID: 500-107457-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.065	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	8.17		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.022	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.090		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0094	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.10		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.020	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.052		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.025	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.70		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	510	B	54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.058		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.029	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.065		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.12		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.045		0.014	0.0027	mg/Kg	1	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (0-7) (Continued)

Lab Sample ID: 500-107457-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0039		0.0035	0.0012	mg/Kg	1	☼	☼	8260B	Total/NA
Fluorene	0.0056	J	0.038	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Phenanthrene	0.059		0.038	0.0053	mg/Kg	1	☼	☼	8270D	Total/NA
Anthracene	0.012	J	0.038	0.0064	mg/Kg	1	☼	☼	8270D	Total/NA
Fluoranthene	0.092		0.038	0.0071	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.071		0.038	0.0076	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]anthracene	0.040		0.038	0.0051	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.045		0.038	0.010	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.060		0.038	0.0082	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.026	J	0.038	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.038	0.0074	mg/Kg	1	☼	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.022	J	0.038	0.0099	mg/Kg	1	☼	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.038	0.012	mg/Kg	1	☼	☼	8270D	Total/NA
Arsenic	4.6		0.60	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	41		0.60	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.44		0.24	0.052	mg/Kg	1	☼	☼	6010B	Total/NA
Boron	8.6		3.0	0.42	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.11	J	0.12	0.035	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	110000	B	120	38	mg/Kg	10	☼	☼	6010B	Total/NA
Chromium	12	B	0.60	0.10	mg/Kg	1	☼	☼	6010B	Total/NA
Cobalt	8.8		0.30	0.067	mg/Kg	1	☼	☼	6010B	Total/NA
Copper	20		0.60	0.13	mg/Kg	1	☼	☼	6010B	Total/NA
Iron	13000	B	12	4.6	mg/Kg	1	☼	☼	6010B	Total/NA
Lead	19		0.30	0.15	mg/Kg	1	☼	☼	6010B	Total/NA
Magnesium	49000	B	6.0	2.4	mg/Kg	1	☼	☼	6010B	Total/NA
Manganese	520		0.60	0.12	mg/Kg	1	☼	☼	6010B	Total/NA
Nickel	23		0.60	0.16	mg/Kg	1	☼	☼	6010B	Total/NA
Potassium	1500		30	4.9	mg/Kg	1	☼	☼	6010B	Total/NA
Sodium	430	B	60	7.9	mg/Kg	1	☼	☼	6010B	Total/NA
Vanadium	16		0.30	0.087	mg/Kg	1	☼	☼	6010B	Total/NA
Zinc	49		1.2	0.38	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1			6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1			6010B	TCLP
Zinc	0.025	J B	0.50	0.020	mg/L	1			6010B	TCLP
Manganese	0.011	J	0.025	0.010	mg/L	1			6010B	SPLP East
Mercury	0.019		0.019	0.0099	mg/Kg	1	☼	☼	7471B	Total/NA
pH	8.15		0.200	0.200	SU	1			9045D	Total/NA

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Phenanthrene	0.025	J	0.040	0.0056	mg/Kg	1	☼	☼	8270D	Total/NA
Pyrene	0.015	J	0.040	0.0080	mg/Kg	1	☼	☼	8270D	Total/NA
Chrysene	0.019	J	0.040	0.011	mg/Kg	1	☼	☼	8270D	Total/NA
Arsenic	3.4		0.61	0.28	mg/Kg	1	☼	☼	6010B	Total/NA
Barium	46		0.61	0.11	mg/Kg	1	☼	☼	6010B	Total/NA
Beryllium	0.61		0.24	0.053	mg/Kg	1	☼	☼	6010B	Total/NA
Boron	13		3.0	0.42	mg/Kg	1	☼	☼	6010B	Total/NA
Cadmium	0.072	J	0.12	0.035	mg/Kg	1	☼	☼	6010B	Total/NA
Calcium	79000	B	120	39	mg/Kg	10	☼	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (7-14) (Continued)

Lab Sample ID: 500-107457-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	18	B	0.61	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.61	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	12	4.7	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	6.1	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.61	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.61	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		30	5.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58	J	0.61	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	61	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.30	0.089	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.096		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.23		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.032	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.031	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.038		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.013	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.021	J	0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.017	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	49		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.60		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	7.7		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.038	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	60000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	210	B	54	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (0-7) (Continued)

Lab Sample ID: 500-107457-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.023	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.19		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.020	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.013	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0097	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.097		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0066	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.034	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.034	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.45	0.083	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	10		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.053	J	0.091	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	91	29	mg/Kg	10	☼	6010B	Total/NA
Chromium	13	B	0.45	0.078	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.45	0.098	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	9.1	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.45	0.090	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.35	J	0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Sodium	160	B	45	6.0	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.64		0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.23	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	49		0.91	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.38	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.076	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.047		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.023	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.092		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.13		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.039		0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.093		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0079	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.11		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.035	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0055	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.031	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	9.5		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	32		0.49	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	68000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	20	B	0.49	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.49	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000	B	4.9	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	370		0.49	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Silver	0.058	J	0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Sodium	170	B	49	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.45	J	0.49	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.091	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.020	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.46		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107457-1	2746-01B-B02 (0-3)	Solid	02/10/16 10:22	02/11/16 07:40
500-107457-2	2746-01B-B01 (0-8)	Solid	02/10/16 10:39	02/11/16 07:40
500-107457-3	2746-01B-B01 (0-8)D	Solid	02/10/16 10:39	02/11/16 07:40
500-107457-4	2746-01-B42 (0-6)	Solid	02/10/16 09:25	02/11/16 07:40
500-107457-5	2746-01-B42 (6-11)	Solid	02/10/16 09:27	02/11/16 07:40
500-107457-6	2746-01-B41 (0-5)	Solid	02/10/16 09:55	02/11/16 07:40
500-107457-7	2746-01-B41 (5-10)	Solid	02/10/16 09:58	02/11/16 07:40
500-107457-8	2746-01-B40 (0-8)	Solid	02/10/16 11:15	02/11/16 07:40
500-107457-9	2746-01-B39 (0-8)	Solid	02/10/16 12:00	02/11/16 07:40
500-107457-10	2746-01-B38 (0-8)	Solid	02/10/16 12:05	02/11/16 07:40
500-107457-11	2746-01-B21 (0-7)	Solid	02/10/16 13:10	02/11/16 07:40
500-107457-12	2746-01-B21 (7-14)	Solid	02/10/16 13:15	02/11/16 07:40
500-107457-13	2746-01-B20 (0-7)	Solid	02/10/16 13:50	02/11/16 07:40
500-107457-14	2746-01-B20 (7-14)	Solid	02/10/16 13:55	02/11/16 07:40
500-107457-15	2746-01-B20 (14-20)	Solid	02/10/16 14:00	02/11/16 07:40

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B02 (0-3)

Lab Sample ID: 500-107457-1

Date Collected: 02/10/16 10:22

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.016	0.0031	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Carbon tetrachloride	<0.0040		0.0040	0.00087	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Styrene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/11/16 08:10	02/16/16 23:12	1
Dibromofluoromethane	92		75 - 120	02/11/16 08:10	02/16/16 23:12	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/11/16 08:10	02/16/16 23:12	1
Toluene-d8 (Surr)	103		75 - 122	02/11/16 08:10	02/16/16 23:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.89		0.89	0.39	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Bis(2-chloroethyl)ether	<0.89		0.89	0.27	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
1,3-Dichlorobenzene	<0.89		0.89	0.20	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
1,4-Dichlorobenzene	<0.89		0.89	0.23	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B02 (0-3)

Lab Sample ID: 500-107457-1

Date Collected: 02/10/16 10:22

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.89		0.89	0.21	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2-Methylphenol	<0.89		0.89	0.28	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,2'-oxybis[1-chloropropane]	<0.89		0.89	0.21	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
N-Nitrosodi-n-propylamine	<0.36		0.36	0.22	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Hexachloroethane	<0.89	F1	0.89	0.27	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2-Chlorophenol	<0.89		0.89	0.30	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Nitrobenzene	<0.18		0.18	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Bis(2-chloroethoxy)methane	<0.89		0.89	0.18	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
1,2,4-Trichlorobenzene	<0.89		0.89	0.19	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Isophorone	<0.89		0.89	0.20	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,4-Dimethylphenol	<1.8		1.8	0.67	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Hexachlorobutadiene	<0.89		0.89	0.28	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Naphthalene	0.061	J	0.18	0.027	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,4-Dichlorophenol	<1.8		1.8	0.42	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4-Chloroaniline	<3.6	F1	3.6	0.83	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,4,6-Trichlorophenol	<1.8		1.8	0.61	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,4,5-Trichlorophenol	<1.8		1.8	0.41	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Hexachlorocyclopentadiene	<3.6	F1	3.6	1.0	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2-Methylnaphthalene	0.17	J	0.18	0.033	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2-Nitroaniline	<0.89		0.89	0.24	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2-Chloronaphthalene	<0.89		0.89	0.20	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4-Chloro-3-methylphenol	<1.8		1.8	0.60	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,6-Dinitrotoluene	<0.89		0.89	0.35	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2-Nitrophenol	<1.8	F1	1.8	0.42	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
3-Nitroaniline	<1.8		1.8	0.55	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Dimethyl phthalate	<0.89		0.89	0.23	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,4-Dinitrophenol	<3.6		3.6	3.1	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Acenaphthylene	<0.18		0.18	0.023	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
2,4-Dinitrotoluene	<0.89	F1	0.89	0.28	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Acenaphthene	0.046	J	0.18	0.032	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Dibenzofuran	<0.89		0.89	0.21	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4-Nitrophenol	<3.6	F1	3.6	1.7	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Fluorene	0.070	J	0.18	0.025	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4-Nitroaniline	<1.8	F1	1.8	0.74	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4-Bromophenyl phenyl ether	<0.89	F1	0.89	0.23	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Hexachlorobenzene	<0.36		0.36	0.041	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Diethyl phthalate	<0.89		0.89	0.30	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4-Chlorophenyl phenyl ether	<0.89		0.89	0.21	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Pentachlorophenol	<3.6	F1	3.6	2.8	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
N-Nitrosodiphenylamine	<0.89	F1	0.89	0.21	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
4,6-Dinitro-2-methylphenol	<3.6	F1	3.6	1.4	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Phenanthrene	0.65		0.18	0.025	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Anthracene	0.094	J	0.18	0.030	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Carbazole	<0.89		0.89	0.44	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Di-n-butyl phthalate	<0.89		0.89	0.27	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Fluoranthene	0.62		0.18	0.033	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Pyrene	1.4	F1	0.18	0.035	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Butyl benzyl phthalate	<0.89	F1	0.89	0.34	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Benzo[a]anthracene	0.33		0.18	0.024	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B02 (0-3)

Lab Sample ID: 500-107457-1

Date Collected: 02/10/16 10:22

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.53		0.18	0.048	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
3,3'-Dichlorobenzidine	<0.89		0.89	0.25	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Bis(2-ethylhexyl) phthalate	<0.89	F1	0.89	0.32	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Di-n-octyl phthalate	<0.89	F1	0.89	0.29	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Benzo[b]fluoranthene	0.59		0.18	0.038	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Benzo[k]fluoranthene	0.22		0.18	0.052	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Benzo[a]pyrene	0.36		0.18	0.034	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Indeno[1,2,3-cd]pyrene	0.22		0.18	0.046	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Dibenz(a,h)anthracene	0.10	J	0.18	0.034	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
Benzo[g,h,i]perylene	0.29		0.18	0.057	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5
3 & 4 Methylphenol	<0.89		0.89	0.30	mg/Kg	☼	02/12/16 16:22	02/21/16 18:18	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110	02/12/16 16:22	02/21/16 18:18	5
Phenol-d5	103		31 - 110	02/12/16 16:22	02/21/16 18:18	5
Nitrobenzene-d5	94		25 - 115	02/12/16 16:22	02/21/16 18:18	5
2-Fluorobiphenyl	90		25 - 119	02/12/16 16:22	02/21/16 18:18	5
2,4,6-Tribromophenol	50		35 - 137	02/12/16 16:22	02/21/16 18:18	5
Terphenyl-d14	198	X	36 - 134	02/12/16 16:22	02/21/16 18:18	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	J F1	0.94	0.19	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Arsenic	1.8		0.47	0.22	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Barium	11		0.47	0.086	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Beryllium	0.15	J	0.19	0.041	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Boron	11		2.3	0.33	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Cadmium	0.035	J	0.094	0.027	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Calcium	170000	B	94	30	mg/Kg	☼	02/15/16 09:32	02/17/16 22:11	10
Chromium	5.5	B	0.47	0.081	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Cobalt	1.4		0.23	0.053	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Copper	5.1		0.47	0.10	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Iron	3600	B	9.4	3.6	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Lead	3.9	F1	0.23	0.12	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Magnesium	99000	B	47	19	mg/Kg	☼	02/15/16 09:32	02/17/16 22:11	10
Manganese	160		0.47	0.093	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Nickel	6.1		0.47	0.13	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Potassium	520	F1	23	3.8	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Silver	<0.23		0.23	0.055	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Sodium	580	F1 B	47	6.2	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Vanadium	12		0.23	0.068	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1
Zinc	15	F1	0.94	0.30	mg/Kg	☼	02/15/16 09:32	02/16/16 23:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.18	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 16:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 16:36	1
Boron	0.082	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 16:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B02 (0-3)

Lab Sample ID: 500-107457-1

Date Collected: 02/10/16 10:22

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 93.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Iron	<0.40		0.40	0.20	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Manganese	0.36		0.025	0.010	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Nickel	0.011	J	0.025	0.010	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Silver	<0.025		0.025	0.010	mg/L	-	02/14/16 08:30	02/15/16 16:36	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/14/16 08:30	02/15/16 16:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L	-	02/14/16 08:30	02/17/16 06:49	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	[^]	0.0060	0.0060	mg/L	-	02/14/16 08:30	02/16/16 12:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/14/16 08:30	02/16/16 12:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/15/16 13:50	02/16/16 10:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0083	mg/Kg	☼	02/16/16 16:00	02/17/16 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.0		0.200	0.200	SU	-		02/15/16 16:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/11/16 08:10	02/16/16 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/11/16 08:10	02/16/16 23:38	1
Dibromofluoromethane	94		75 - 120	02/11/16 08:10	02/16/16 23:38	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/11/16 08:10	02/16/16 23:38	1
Toluene-d8 (Surr)	107		75 - 122	02/11/16 08:10	02/16/16 23:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Naphthalene	0.044		0.037	0.0057	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2-Methylnaphthalene	0.13		0.037	0.0068	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Fluorene	0.0072 J		0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Phenanthrene	0.088		0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Pyrene	0.052		0.037	0.0074	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.040		0.037	0.010	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
Benzo[g,h,i]perylene	0.034	J	0.037	0.012	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/21/16 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	92		25 - 110	02/12/16 16:22	02/21/16 18:43	1
Phenol-d5	92		31 - 110	02/12/16 16:22	02/21/16 18:43	1
Nitrobenzene-d5	82		25 - 115	02/12/16 16:22	02/21/16 18:43	1
2-Fluorobiphenyl	78		25 - 119	02/12/16 16:22	02/21/16 18:43	1
2,4,6-Tribromophenol	65		35 - 137	02/12/16 16:22	02/21/16 18:43	1
Terphenyl-d14	200	X	36 - 134	02/12/16 16:22	02/21/16 18:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Arsenic	5.0		0.46	0.21	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Barium	46		0.46	0.083	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Beryllium	0.59		0.18	0.039	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Boron	14		2.3	0.32	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Cadmium	<0.091		0.091	0.026	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Calcium	58000	B	91	29	mg/Kg	☼	02/15/16 09:32	02/17/16 22:45	10
Chromium	16	B	0.46	0.078	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Cobalt	12		0.23	0.051	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Copper	22		0.46	0.099	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Iron	16000	B	9.1	3.5	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Lead	12		0.23	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Magnesium	26000	B	4.6	1.8	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Manganese	310		0.46	0.090	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Nickel	32		0.46	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Potassium	2600		23	3.7	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Selenium	0.36	J	0.46	0.23	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Sodium	590	B	46	6.0	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Thallium	0.41	J	0.46	0.22	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Vanadium	19		0.23	0.067	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1
Zinc	49		0.91	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 00:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:03	1
Boron	0.086	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:03	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:03	1
Cobalt	0.010	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:03	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:03	1
Manganese	1.6		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:03	1
Nickel	0.023	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:03	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:03	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:03	1
Zinc	0.027	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		02/14/16 08:30	02/17/16 06:56	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 12:52	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 12:52	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0090	mg/Kg	☼	02/16/16 16:00	02/17/16 18:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.59		0.200	0.200	SU			02/15/16 16:03	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/11/16 08:10	02/17/16 00:03	1
Dibromofluoromethane	97		75 - 120	02/11/16 08:10	02/17/16 00:03	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/11/16 08:10	02/17/16 00:03	1
Toluene-d8 (Surr)	106		75 - 122	02/11/16 08:10	02/17/16 00:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Naphthalene	0.047		0.039	0.0060	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2-Methylnaphthalene	0.13		0.039	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Fluorene	0.0074 J		0.039	0.0055	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Phenanthrene	0.098		0.039	0.0054	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Fluoranthene	0.039		0.039	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Pyrene	0.13		0.039	0.0078	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Benzo[a]anthracene	0.021 J		0.039	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.058		0.039	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
Benzo[g,h,i]perylene	0.034	J	0.039	0.013	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	89		25 - 110	02/12/16 16:22	02/20/16 03:08	1
Phenol-d5	87		31 - 110	02/12/16 16:22	02/20/16 03:08	1
Nitrobenzene-d5	75		25 - 115	02/12/16 16:22	02/20/16 03:08	1
2-Fluorobiphenyl	75		25 - 119	02/12/16 16:22	02/20/16 03:08	1
2,4,6-Tribromophenol	64		35 - 137	02/12/16 16:22	02/20/16 03:08	1
Terphenyl-d14	190	X	36 - 134	02/12/16 16:22	02/20/16 03:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Arsenic	6.1		0.50	0.23	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Barium	44		0.50	0.091	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Beryllium	0.61		0.20	0.043	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Boron	14		2.5	0.35	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Calcium	62000	B	99	32	mg/Kg	☼	02/15/16 09:32	02/17/16 22:52	10
Chromium	16	B	0.50	0.086	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Cobalt	14		0.25	0.056	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Copper	24		0.50	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Iron	17000	B	9.9	3.8	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Lead	13		0.25	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Magnesium	29000	B	5.0	2.0	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Manganese	310		0.50	0.098	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Nickel	35		0.50	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Potassium	2600		25	4.1	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Sodium	830	B	50	6.6	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Thallium	<0.50		0.50	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Vanadium	18		0.25	0.073	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1
Zinc	52		0.99	0.31	mg/Kg	☼	02/15/16 09:32	02/17/16 00:17	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:09	1
Boron	0.081	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:09	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:09	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:09	1
Manganese	1.9		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:09	1
Nickel	0.023	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:09	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:09	1
Zinc	0.027	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		02/14/16 08:30	02/17/16 07:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 12:56	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 12:56	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		0.200	0.200	SU			02/15/16 16:05	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Date Collected: 02/10/16 09:25

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Chlorobenzene	<0.0038		0.0038	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Tetrachloroethene	<0.0038		0.0038	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Vinyl chloride	<0.0038		0.0038	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122	02/11/16 08:10	02/17/16 00:29	1
Dibromofluoromethane	97		75 - 120	02/11/16 08:10	02/17/16 00:29	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/11/16 08:10	02/17/16 00:29	1
Toluene-d8 (Surr)	105		75 - 122	02/11/16 08:10	02/17/16 00:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.081	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Date Collected: 02/10/16 09:25

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Naphthalene	0.045		0.036	0.0056	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2-Methylnaphthalene	0.18		0.036	0.0067	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Acenaphthylene	0.0070 J		0.036	0.0048	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Acenaphthene	0.0075 J		0.036	0.0065	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Fluorene	0.0082 J		0.036	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Phenanthrene	0.12		0.036	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Fluoranthene	0.013 J		0.036	0.0067	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Pyrene	0.073		0.036	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Benzo[a]anthracene	0.011 J		0.036	0.0049	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Date Collected: 02/10/16 09:25

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.040		0.036	0.0099	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Benzo[a]pyrene	0.018	J	0.036	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Benzo[g,h,i]perylene	0.026	J	0.036	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	99		25 - 110				02/12/16 16:22	02/20/16 03:34	1
Phenol-d5	93		31 - 110				02/12/16 16:22	02/20/16 03:34	1
Nitrobenzene-d5	80		25 - 115				02/12/16 16:22	02/20/16 03:34	1
2-Fluorobiphenyl	76		25 - 119				02/12/16 16:22	02/20/16 03:34	1
2,4,6-Tribromophenol	64		35 - 137				02/12/16 16:22	02/20/16 03:34	1
Terphenyl-d14	186	X	36 - 134				02/12/16 16:22	02/20/16 03:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Arsenic	4.8		0.49	0.22	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Barium	47		0.49	0.089	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Beryllium	0.58		0.19	0.042	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Boron	13		2.4	0.34	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Cadmium	0.032	J	0.097	0.028	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Calcium	66000	B	97	31	mg/Kg	☼	02/15/16 09:32	02/17/16 22:58	10
Chromium	16	B	0.49	0.084	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Cobalt	11		0.24	0.055	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Copper	23		0.49	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Iron	16000	B	9.7	3.8	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Lead	13		0.24	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Magnesium	28000	B	4.9	2.0	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Manganese	350		0.49	0.096	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Nickel	29		0.49	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Potassium	2500		24	4.0	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Sodium	820	B	49	6.4	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Vanadium	18		0.24	0.071	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1
Zinc	46		0.97	0.31	mg/Kg	☼	02/15/16 09:32	02/17/16 00:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:16	1
Boron	0.072	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Date Collected: 02/10/16 09:25

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 87.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:16	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:16	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:16	1
Manganese	1.4		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:16	1
Nickel	0.033		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:16	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:16	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.13		0.025	0.010	mg/L		02/14/16 08:30	02/17/16 07:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:00	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:00	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0090	mg/Kg	☼	02/16/16 16:00	02/17/16 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			02/15/16 16:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Benzene	<0.0042		0.0042	0.00092	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Chloroethane	<0.0042	*	0.0042	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,1-Dichloroethane	<0.0042		0.0042	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,1,1,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Tetrachloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/11/16 08:10	02/17/16 00:54	1
Dibromofluoromethane	95		75 - 120	02/11/16 08:10	02/17/16 00:54	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/11/16 08:10	02/17/16 00:54	1
Toluene-d8 (Surr)	105		75 - 122	02/11/16 08:10	02/17/16 00:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Naphthalene	0.046		0.037	0.0057	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2-Methylnaphthalene	0.14		0.037	0.0068	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Acenaphthylene	0.0071 J		0.037	0.0049	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Acenaphthene	0.013 J		0.037	0.0067	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Fluorene	0.011 J		0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Phenanthrene	0.13		0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Fluoranthene	0.015 J		0.037	0.0069	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Pyrene	0.031 J		0.037	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
Benzo[g,h,i]perylene	0.021	J	0.037	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		25 - 110	02/12/16 16:22	02/20/16 18:36	1
Phenol-d5	77		31 - 110	02/12/16 16:22	02/20/16 18:36	1
Nitrobenzene-d5	72		25 - 115	02/12/16 16:22	02/20/16 18:36	1
2-Fluorobiphenyl	81		25 - 119	02/12/16 16:22	02/20/16 18:36	1
2,4,6-Tribromophenol	84		35 - 137	02/12/16 16:22	02/20/16 18:36	1
Terphenyl-d14	97		36 - 134	02/12/16 16:22	02/20/16 18:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Arsenic	6.6		0.54	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Barium	34		0.54	0.099	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Boron	13		2.7	0.38	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Calcium	68000	B	110	35	mg/Kg	☼	02/15/16 09:32	02/17/16 23:21	10
Chromium	15	B	0.54	0.093	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Cobalt	13		0.27	0.061	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Copper	29		0.54	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Iron	18000	B	11	4.2	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Lead	14		0.27	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Magnesium	28000	B	5.4	2.2	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Manganese	430		0.54	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Nickel	34		0.54	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Potassium	2400		27	4.4	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Sodium	230	B	54	7.1	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Vanadium	17		0.27	0.079	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1
Zinc	52		1.1	0.34	mg/Kg	☼	02/15/16 09:32	02/17/16 00:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.54		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:23	1
Boron	0.097	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:23	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:23	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:23	1
Manganese	1.6		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:23	1
Nickel	0.038		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:23	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:23	1
Zinc	0.021	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.022	J	0.025	0.010	mg/L		02/14/16 08:30	02/16/16 09:17	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			02/15/16 16:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Date Collected: 02/10/16 09:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Benzene	<0.0041		0.0041	0.00092	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Bromodichloromethane	<0.0041		0.0041	0.00070	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Carbon tetrachloride	<0.0041		0.0041	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Chlorobenzene	<0.0041		0.0041	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Chloroform	<0.0041		0.0041	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Dibromochloromethane	<0.0041		0.0041	0.00048	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Styrene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00066	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Vinyl chloride	<0.0041		0.0041	0.00099	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/11/16 08:10	02/17/16 01:20	1
Dibromofluoromethane	95		75 - 120	02/11/16 08:10	02/17/16 01:20	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/11/16 08:10	02/17/16 01:20	1
Toluene-d8 (Surr)	107		75 - 122	02/11/16 08:10	02/17/16 01:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Date Collected: 02/10/16 09:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Naphthalene	0.016	J	0.037	0.0058	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2-Methylnaphthalene	0.054		0.037	0.0069	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Fluorene	0.0077	J	0.037	0.0053	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Phenanthrene	0.096		0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Fluoranthene	0.013	J	0.037	0.0070	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Pyrene	0.091		0.037	0.0075	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Benzo[a]anthracene	0.012	J	0.037	0.0051	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Date Collected: 02/10/16 09:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.048		0.037	0.010	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
Benzo[g,h,i]perylene	0.087		0.037	0.012	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/21/16 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	100		25 - 110	02/12/16 16:22	02/21/16 19:57	1
Phenol-d5	95		31 - 110	02/12/16 16:22	02/21/16 19:57	1
Nitrobenzene-d5	78		25 - 115	02/12/16 16:22	02/21/16 19:57	1
2-Fluorobiphenyl	79		25 - 119	02/12/16 16:22	02/21/16 19:57	1
2,4,6-Tribromophenol	63		35 - 137	02/12/16 16:22	02/21/16 19:57	1
Terphenyl-d14	220	X	36 - 134	02/12/16 16:22	02/21/16 19:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Arsenic	5.0		0.58	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Barium	41		0.58	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Beryllium	0.59		0.23	0.050	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Boron	15		2.9	0.40	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Cadmium	0.034	J	0.12	0.033	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Calcium	87000	B	120	37	mg/Kg	☼	02/15/16 09:32	02/17/16 23:28	10
Chromium	17	B	0.58	0.099	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Cobalt	12		0.29	0.065	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Copper	22		0.58	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Iron	17000	B	12	4.5	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Lead	15		0.29	0.14	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Magnesium	34000	B	5.8	2.3	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Manganese	340		0.58	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Nickel	31		0.58	0.16	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Potassium	2700		29	4.7	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Sodium	1000	B	58	7.6	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Vanadium	19		0.29	0.084	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1
Zinc	49		1.2	0.37	mg/Kg	☼	02/15/16 09:32	02/17/16 00:33	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:45	1
Boron	0.060	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:45	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Date Collected: 02/10/16 09:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:45	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:45	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:45	1
Manganese	1.4		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:45	1
Nickel	0.031		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:45	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:45	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.57		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 09:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0094	mg/Kg	☼	02/16/16 16:00	02/17/16 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22		0.200	0.200	SU			02/15/16 16:11	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Date Collected: 02/10/16 09:58

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/11/16 08:10	02/17/16 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/11/16 08:10	02/17/16 01:46	1
Dibromofluoromethane	94		75 - 120	02/11/16 08:10	02/17/16 01:46	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/11/16 08:10	02/17/16 01:46	1
Toluene-d8 (Surr)	105		75 - 122	02/11/16 08:10	02/17/16 01:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Date Collected: 02/10/16 09:58

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Naphthalene	0.060		0.039	0.0060	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2-Methylnaphthalene	0.16		0.039	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Fluorene	0.0095 J		0.039	0.0055	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Phenanthrene	0.11		0.039	0.0054	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Fluoranthene	0.010 J		0.039	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Pyrene	0.027 J		0.039	0.0077	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Benzof[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Date Collected: 02/10/16 09:58

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.029	J	0.039	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
Benzo[g,h,i]perylene	0.023	J	0.039	0.013	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		25 - 110	02/12/16 16:22	02/20/16 19:05	1
Phenol-d5	81		31 - 110	02/12/16 16:22	02/20/16 19:05	1
Nitrobenzene-d5	75		25 - 115	02/12/16 16:22	02/20/16 19:05	1
2-Fluorobiphenyl	82		25 - 119	02/12/16 16:22	02/20/16 19:05	1
2,4,6-Tribromophenol	71		35 - 137	02/12/16 16:22	02/20/16 19:05	1
Terphenyl-d14	97		36 - 134	02/12/16 16:22	02/20/16 19:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Arsenic	7.9		0.59	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Barium	57		0.59	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Beryllium	0.54		0.24	0.051	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Boron	14		2.9	0.41	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Calcium	63000	B	120	38	mg/Kg	☼	02/15/16 09:32	02/17/16 23:35	10
Chromium	16	B	0.59	0.10	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Cobalt	14		0.29	0.067	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Copper	27		0.59	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Lead	14		0.29	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Magnesium	29000	B	5.9	2.4	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Manganese	440		0.59	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Nickel	35		0.59	0.16	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Potassium	2500		29	4.8	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Selenium	0.57	J	0.59	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Sodium	420	B	59	7.8	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Vanadium	18		0.29	0.086	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1
Zinc	56		1.2	0.37	mg/Kg	☼	02/15/16 09:32	02/17/16 00:38	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.52		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:52	1
Boron	0.080	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Date Collected: 02/10/16 09:58

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:52	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:52	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:52	1
Manganese	1.5		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:52	1
Nickel	0.030		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:52	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:52	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.26		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 09:30	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0098	mg/Kg	☼	02/16/16 16:00	02/17/16 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU			02/15/16 16:13	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Benzene	<0.0035		0.0035	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Bromodichloromethane	<0.0035		0.0035	0.00058	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Bromoform	<0.0035		0.0035	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
2-Butanone (MEK)	<0.0035		0.0035	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Carbon disulfide	<0.0035		0.0035	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Carbon tetrachloride	<0.0035		0.0035	0.00074	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Chlorobenzene	<0.0035		0.0035	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Chloroethane	<0.0035	*	0.0035	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Chloroform	<0.0035		0.0035	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Chloromethane	<0.0035		0.0035	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Dibromochloromethane	<0.0035		0.0035	0.00040	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,1-Dichloroethane	<0.0035		0.0035	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,2-Dichloroethane	<0.0035		0.0035	0.00051	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,1-Dichloroethene	<0.0035		0.0035	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,2-Dichloropropane	<0.0035		0.0035	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,3-Dichloropropane, Total	<0.0035		0.0035	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Ethylbenzene	<0.0035		0.0035	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Methylene Chloride	<0.0035		0.0035	0.0026	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Styrene	<0.0035		0.0035	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.00055	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Tetrachloroethene	<0.0035		0.0035	0.00072	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Toluene	<0.0035		0.0035	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00067	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Trichloroethene	<0.0035		0.0035	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Vinyl acetate	<0.0035		0.0035	0.00093	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Vinyl chloride	<0.0035		0.0035	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1
Xylenes, Total	<0.0069		0.0069	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/11/16 08:10	02/17/16 02:11	1
Dibromofluoromethane	100		75 - 120	02/11/16 08:10	02/17/16 02:11	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	02/11/16 08:10	02/17/16 02:11	1
Toluene-d8 (Surr)	106		75 - 122	02/11/16 08:10	02/17/16 02:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Naphthalene	0.022	J	0.037	0.0057	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,4-Dichlorophenol	<0.37		0.37	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2-Methylnaphthalene	0.070		0.037	0.0068	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.072	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Fluorene	0.0069	J	0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Diethyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Phenanthrene	0.090		0.037	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Anthracene	0.0077	J	0.037	0.0061	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Fluoranthene	0.051		0.037	0.0068	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Pyrene	0.075		0.037	0.0073	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Benzo[a]anthracene	0.028	J	0.037	0.0050	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.054		0.037	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Benzo[b]fluoranthene	0.052		0.037	0.0079	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Benzo[k]fluoranthene	0.011 J		0.037	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Benzo[a]pyrene	<0.037		0.037	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0095	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
Benzo[g,h,i]perylene	0.044		0.037	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1
3 & 4 Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	02/12/16 16:22	02/20/16 19:33	1
Phenol-d5	75		31 - 110	02/12/16 16:22	02/20/16 19:33	1
Nitrobenzene-d5	68		25 - 115	02/12/16 16:22	02/20/16 19:33	1
2-Fluorobiphenyl	79		25 - 119	02/12/16 16:22	02/20/16 19:33	1
2,4,6-Tribromophenol	76		35 - 137	02/12/16 16:22	02/20/16 19:33	1
Terphenyl-d14	124		36 - 134	02/12/16 16:22	02/20/16 19:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Arsenic	6.3		0.50	0.23	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Barium	39		0.50	0.092	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Beryllium	0.59		0.20	0.044	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Boron	15		2.5	0.35	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Cadmium	0.039 J		0.10	0.029	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Calcium	72000 B		100	32	mg/Kg	☼	02/15/16 09:32	02/17/16 23:41	10
Chromium	17 B		0.50	0.086	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Cobalt	12		0.25	0.057	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Copper	27		0.50	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Iron	16000 B		10	3.9	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Lead	100		0.25	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Magnesium	30000 B		5.0	2.0	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Manganese	310		0.50	0.099	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Nickel	33		0.50	0.14	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Potassium	2700		25	4.1	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Selenium	0.33 J		0.50	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Sodium	1000 B		50	6.6	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Vanadium	19		0.25	0.073	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1
Zinc	58		1.0	0.32	mg/Kg	☼	02/15/16 09:32	02/17/16 00:43	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.44 J		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 17:59	1
Boron	0.069 J		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 17:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:59	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:59	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 17:59	1
Lead	0.017		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 17:59	1
Manganese	2.2		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:59	1
Nickel	0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 17:59	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 17:59	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/16 08:30	02/15/16 17:59	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.0075	0.0075	mg/L		02/14/16 08:30	02/16/16 09:41	1
Manganese	0.74		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 09:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.018	0.0095	mg/Kg	☼	02/16/16 16:00	02/17/16 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.35		0.200	0.200	SU			02/15/16 16:15	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Chloroethane	<0.0037	*	0.0037	0.0016	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Chloroform	<0.0037		0.0037	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Chloromethane	<0.0037		0.0037	0.00090	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,2-Dichloroethane	<0.0037		0.0037	0.00056	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,2-Dichloropropane	<0.0037		0.0037	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,3-Dichloropropane, Total	<0.0037		0.0037	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Ethylbenzene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Styrene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Tetrachloroethene	<0.0037		0.0037	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Vinyl chloride	<0.0037		0.0037	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 02:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/11/16 08:10	02/17/16 02:36	1
Dibromofluoromethane	96		75 - 120	02/11/16 08:10	02/17/16 02:36	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/11/16 08:10	02/17/16 02:36	1
Toluene-d8 (Surr)	105		75 - 122	02/11/16 08:10	02/17/16 02:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Naphthalene	0.039		0.039	0.0061	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2-Methylnaphthalene	0.12		0.039	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Fluorene	0.0077	J	0.039	0.0055	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Phenanthrene	0.097		0.039	0.0055	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Pyrene	0.048		0.039	0.0078	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Benzo[a]anthracene	0.0067	J	0.039	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.037	J	0.039	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
Benzo[g,h,i]perylene	0.030	J	0.039	0.013	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	02/12/16 16:22	02/20/16 20:02	1
Phenol-d5	72		31 - 110	02/12/16 16:22	02/20/16 20:02	1
Nitrobenzene-d5	65		25 - 115	02/12/16 16:22	02/20/16 20:02	1
2-Fluorobiphenyl	74		25 - 119	02/12/16 16:22	02/20/16 20:02	1
2,4,6-Tribromophenol	75		35 - 137	02/12/16 16:22	02/20/16 20:02	1
Terphenyl-d14	124		36 - 134	02/12/16 16:22	02/20/16 20:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Arsenic	5.4		0.58	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Barium	49		0.58	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Beryllium	0.70		0.23	0.050	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Boron	16		2.9	0.41	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Cadmium	0.070	J	0.12	0.034	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Calcium	69000	B	120	38	mg/Kg	☼	02/15/16 09:32	02/17/16 23:48	10
Chromium	18	B	0.58	0.10	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Cobalt	14		0.29	0.066	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Copper	24		0.58	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Lead	15		0.29	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Magnesium	28000	B	5.8	2.4	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Manganese	350		0.58	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Nickel	35		0.58	0.16	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Potassium	3000		29	4.8	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Selenium	0.65		0.58	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Sodium	660	B	58	7.7	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Vanadium	21		0.29	0.085	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1
Zinc	54		1.2	0.37	mg/Kg	☼	02/15/16 09:32	02/17/16 00:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:06	1
Boron	0.065	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:06	1
Cobalt	0.012	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:06	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:06	1
Manganese	1.5		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:06	1
Nickel	0.034		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:06	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:06	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.48		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 09:48	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:29	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:29	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0093	mg/Kg	☼	02/16/16 16:00	02/17/16 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.17		0.200	0.200	SU			02/15/16 16:17	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Date Collected: 02/10/16 12:05

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Chloroethane	<0.0037	*	0.0037	0.0016	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Chloroform	<0.0037		0.0037	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,2-Dichloropropane	<0.0037		0.0037	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Vinyl chloride	<0.0037		0.0037	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1
Xylenes, Total	<0.0074		0.0074	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/11/16 08:10	02/17/16 03:02	1
Dibromofluoromethane	99		75 - 120	02/11/16 08:10	02/17/16 03:02	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/11/16 08:10	02/17/16 03:02	1
Toluene-d8 (Surr)	105		75 - 122	02/11/16 08:10	02/17/16 03:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Date Collected: 02/10/16 12:05

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Naphthalene	0.022	J	0.038	0.0059	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2-Methylnaphthalene	0.090		0.038	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4-Nitrophenol	<0.77		0.77	0.37	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Fluorene	0.0094	J	0.038	0.0054	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Phenanthrene	0.10		0.038	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Fluoranthene	0.020	J	0.038	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Pyrene	0.052		0.038	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Date Collected: 02/10/16 12:05

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
Benzo[g,h,i]perylene	0.025	J	0.038	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	02/12/16 16:22	02/20/16 20:31	1
Phenol-d5	70		31 - 110	02/12/16 16:22	02/20/16 20:31	1
Nitrobenzene-d5	63		25 - 115	02/12/16 16:22	02/20/16 20:31	1
2-Fluorobiphenyl	72		25 - 119	02/12/16 16:22	02/20/16 20:31	1
2,4,6-Tribromophenol	65		35 - 137	02/12/16 16:22	02/20/16 20:31	1
Terphenyl-d14	133		36 - 134	02/12/16 16:22	02/20/16 20:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Arsenic	5.7		0.54	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Barium	49		0.54	0.099	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Beryllium	0.70		0.22	0.047	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Boron	15		2.7	0.38	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Calcium	70000	B	110	35	mg/Kg	☼	02/15/16 09:32	02/17/16 23:55	10
Chromium	19	B	0.54	0.093	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Cobalt	11		0.27	0.061	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Copper	24		0.54	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Iron	18000	B	11	4.2	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Lead	13		0.27	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Magnesium	26000	B	5.4	2.2	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Manganese	310		0.54	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Nickel	31		0.54	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Potassium	2900		27	4.4	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Selenium	0.38	J	0.54	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Sodium	510	B	54	7.1	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Vanadium	21		0.27	0.079	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1
Zinc	56		1.1	0.34	mg/Kg	☼	02/15/16 09:32	02/17/16 01:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:12	1
Boron	<0.50		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:12	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Date Collected: 02/10/16 12:05

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:12	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:12	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:12	1
Manganese	1.6		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:12	1
Nickel	0.058		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:12	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:12	1
Zinc	0.029	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.065		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 09:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:34	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:34	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12		0.200	0.200	SU			02/15/16 16:19	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.045		0.014	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Benzene	<0.0035		0.0035	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Bromodichloromethane	<0.0035		0.0035	0.00059	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Bromoform	<0.0035		0.0035	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
2-Butanone (MEK)	0.0039		0.0035	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Carbon disulfide	<0.0035		0.0035	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Carbon tetrachloride	<0.0035		0.0035	0.00075	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Chlorobenzene	<0.0035		0.0035	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Chloroethane	<0.0035	*	0.0035	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Chloroform	<0.0035		0.0035	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Chloromethane	<0.0035		0.0035	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Dibromochloromethane	<0.0035		0.0035	0.00040	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,1-Dichloroethane	<0.0035		0.0035	0.00072	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,2-Dichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,1-Dichloroethene	<0.0035		0.0035	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,2-Dichloropropane	<0.0035		0.0035	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,3-Dichloropropane, Total	<0.0035		0.0035	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Ethylbenzene	<0.0035		0.0035	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Methylene Chloride	<0.0035		0.0035	0.0026	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00072	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Styrene	<0.0035		0.0035	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.00055	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Tetrachloroethene	<0.0035		0.0035	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Toluene	<0.0035		0.0035	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00098	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Trichloroethene	<0.0035		0.0035	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Vinyl acetate	<0.0035		0.0035	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Vinyl chloride	<0.0035		0.0035	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1
Xylenes, Total	<0.0070		0.0070	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/11/16 08:10	02/17/16 03:27	1
Dibromofluoromethane	99		75 - 120	02/11/16 08:10	02/17/16 03:27	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	02/11/16 08:10	02/17/16 03:27	1
Toluene-d8 (Surr)	102		75 - 122	02/11/16 08:10	02/17/16 03:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Fluorene	0.0056	J	0.038	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Phenanthrene	0.059		0.038	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Anthracene	0.012	J	0.038	0.0064	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Fluoranthene	0.092		0.038	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Pyrene	0.071		0.038	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Benzo[a]anthracene	0.040		0.038	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.045		0.038	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Benzo[b]fluoranthene	0.060		0.038	0.0082	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Benzo[k]fluoranthene	0.026 J		0.038	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Benzo[a]pyrene	0.043		0.038	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Indeno[1,2,3-cd]pyrene	0.022 J		0.038	0.0099	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
Benzo[g,h,i]perylene	0.022 J		0.038	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		25 - 110	02/12/16 16:22	02/20/16 00:33	1
Phenol-d5	84		31 - 110	02/12/16 16:22	02/20/16 00:33	1
Nitrobenzene-d5	71		25 - 115	02/12/16 16:22	02/20/16 00:33	1
2-Fluorobiphenyl	64		25 - 119	02/12/16 16:22	02/20/16 00:33	1
2,4,6-Tribromophenol	49		35 - 137	02/12/16 16:22	02/20/16 00:33	1
Terphenyl-d14	86		36 - 134	02/12/16 16:22	02/20/16 00:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Arsenic	4.6		0.60	0.28	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Barium	41		0.60	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Beryllium	0.44		0.24	0.052	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Boron	8.6		3.0	0.42	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Cadmium	0.11 J		0.12	0.035	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Calcium	110000 B		120	38	mg/Kg	☼	02/15/16 09:32	02/18/16 00:02	10
Chromium	12 B		0.60	0.10	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Cobalt	8.8		0.30	0.067	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Copper	20		0.60	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Iron	13000 B		12	4.6	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Lead	19		0.30	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Magnesium	49000 B		6.0	2.4	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Manganese	520		0.60	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Nickel	23		0.60	0.16	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Potassium	1500		30	4.9	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Selenium	<0.60		0.60	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Sodium	430 B		60	7.9	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Vanadium	16		0.30	0.087	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1
Zinc	49		1.2	0.38	mg/Kg	☼	02/15/16 09:32	02/17/16 01:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27 J		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:19	1
Boron	<0.50		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:19	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:19	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:19	1
Manganese	2.0		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:19	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:19	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:19	1
Zinc	0.025	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.011	J	0.025	0.010	mg/L		02/14/16 08:30	02/16/16 10:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:38	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:38	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0099	mg/Kg	☼	02/16/16 16:00	02/17/16 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			02/15/16 16:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Date Collected: 02/10/16 13:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0028	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Benzene	<0.0036		0.0036	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Bromodichloromethane	<0.0036		0.0036	0.00060	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Bromoform	<0.0036		0.0036	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Bromomethane	<0.0036		0.0036	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Carbon disulfide	<0.0036		0.0036	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Carbon tetrachloride	<0.0036		0.0036	0.00076	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Chlorobenzene	<0.0036		0.0036	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Chloroethane	<0.0036	*	0.0036	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Chloroform	<0.0036		0.0036	0.00069	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Chloromethane	<0.0036		0.0036	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Dibromochloromethane	<0.0036		0.0036	0.00041	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,1-Dichloroethane	<0.0036		0.0036	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,2-Dichloroethane	<0.0036		0.0036	0.00053	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,1-Dichloroethene	<0.0036		0.0036	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,2-Dichloropropane	<0.0036		0.0036	0.00093	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,3-Dichloropropane, Total	<0.0036		0.0036	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Ethylbenzene	<0.0036		0.0036	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Methylene Chloride	<0.0036		0.0036	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00073	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Styrene	<0.0036		0.0036	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,1,2,2-Tetrachloroethane	<0.0036		0.0036	0.00056	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Tetrachloroethene	<0.0036		0.0036	0.00074	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Toluene	<0.0036		0.0036	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00069	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Trichloroethene	<0.0036		0.0036	0.00096	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Vinyl acetate	<0.0036		0.0036	0.00095	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Vinyl chloride	<0.0036		0.0036	0.00085	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1
Xylenes, Total	<0.0071		0.0071	0.0013	mg/Kg	☼	02/11/16 08:10	02/17/16 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/11/16 08:10	02/17/16 03:52	1
Dibromofluoromethane	94		75 - 120	02/11/16 08:10	02/17/16 03:52	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/11/16 08:10	02/17/16 03:52	1
Toluene-d8 (Surr)	104		75 - 122	02/11/16 08:10	02/17/16 03:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Date Collected: 02/10/16 13:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Phenanthrene	0.025	J	0.040	0.0056	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Pyrene	0.015	J	0.040	0.0080	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Date Collected: 02/10/16 13:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.040	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/12/16 16:22	02/20/16 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		25 - 110	02/12/16 16:22	02/20/16 00:59	1
Phenol-d5	82		31 - 110	02/12/16 16:22	02/20/16 00:59	1
Nitrobenzene-d5	69		25 - 115	02/12/16 16:22	02/20/16 00:59	1
2-Fluorobiphenyl	65		25 - 119	02/12/16 16:22	02/20/16 00:59	1
2,4,6-Tribromophenol	55		35 - 137	02/12/16 16:22	02/20/16 00:59	1
Terphenyl-d14	86		36 - 134	02/12/16 16:22	02/20/16 00:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Arsenic	3.4		0.61	0.28	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Barium	46		0.61	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Beryllium	0.61		0.24	0.053	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Boron	13		3.0	0.42	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Cadmium	0.072	J	0.12	0.035	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Calcium	79000	B	120	39	mg/Kg	☼	02/15/16 09:32	02/18/16 00:08	10
Chromium	18	B	0.61	0.10	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Cobalt	12		0.30	0.069	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Copper	21		0.61	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Iron	17000	B	12	4.7	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Lead	11		0.30	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Magnesium	33000	B	6.1	2.5	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Manganese	420		0.61	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Nickel	30		0.61	0.16	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Potassium	2800		30	5.0	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Selenium	0.58	J	0.61	0.30	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Sodium	210	B	61	8.0	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Vanadium	20		0.30	0.089	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1
Zinc	51		1.2	0.38	mg/Kg	☼	02/15/16 09:32	02/17/16 01:11	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.43	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:26	1
Boron	<0.50		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Date Collected: 02/10/16 13:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 81.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:26	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:26	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:26	1
Manganese	1.8		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:26	1
Nickel	0.024	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:26	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:26	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.096		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 10:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:42	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:42	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0098	mg/Kg	☼	02/16/16 16:00	02/17/16 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.23		0.200	0.200	SU			02/15/16 16:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Date Collected: 02/10/16 13:50

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.013		0.013	0.0026	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Benzene	<0.0033		0.0033	0.00074	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Bromodichloromethane	<0.0033		0.0033	0.00056	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Bromoform	<0.0033		0.0033	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Bromomethane	<0.0033		0.0033	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
2-Butanone (MEK)	<0.0033		0.0033	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Carbon disulfide	<0.0033		0.0033	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Carbon tetrachloride	<0.0033		0.0033	0.00071	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Chlorobenzene	<0.0033		0.0033	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Chloroethane	<0.0033	*	0.0033	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Chloroform	<0.0033		0.0033	0.00065	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Chloromethane	<0.0033		0.0033	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
cis-1,2-Dichloroethene	<0.0033		0.0033	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
cis-1,3-Dichloropropene	<0.0033		0.0033	0.00076	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Dibromochloromethane	<0.0033		0.0033	0.00038	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,1-Dichloroethane	<0.0033		0.0033	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,2-Dichloroethane	<0.0033		0.0033	0.00049	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,1-Dichloroethene	<0.0033		0.0033	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,2-Dichloropropane	<0.0033		0.0033	0.00087	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,3-Dichloropropene, Total	<0.0033		0.0033	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Ethylbenzene	<0.0033		0.0033	0.00082	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
2-Hexanone	<0.0033		0.0033	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Methylene Chloride	<0.0033		0.0033	0.0025	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
4-Methyl-2-pentanone (MIBK)	<0.0033		0.0033	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Methyl tert-butyl ether	<0.0033		0.0033	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Styrene	<0.0033		0.0033	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,1,2,2-Tetrachloroethane	<0.0033		0.0033	0.00053	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Tetrachloroethene	<0.0033		0.0033	0.00069	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Toluene	<0.0033		0.0033	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
trans-1,2-Dichloroethene	<0.0033		0.0033	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
trans-1,3-Dichloropropene	<0.0033		0.0033	0.00094	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,1,1-Trichloroethane	<0.0033		0.0033	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
1,1,2-Trichloroethane	<0.0033		0.0033	0.00064	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Trichloroethene	<0.0033		0.0033	0.00090	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Vinyl acetate	<0.0033		0.0033	0.00089	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Vinyl chloride	<0.0033		0.0033	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1
Xylenes, Total	<0.0066		0.0066	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/11/16 08:10	02/17/16 04:18	1
Dibromofluoromethane	96		75 - 120	02/11/16 08:10	02/17/16 04:18	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/11/16 08:10	02/17/16 04:18	1
Toluene-d8 (Surr)	103		75 - 122	02/11/16 08:10	02/17/16 04:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Date Collected: 02/10/16 13:50

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Phenanthrene	0.032	J	0.038	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Fluoranthene	0.031	J	0.038	0.0071	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Pyrene	0.038		0.038	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Benzo[a]anthracene	0.013	J	0.038	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Date Collected: 02/10/16 13:50

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.033	J	0.038	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Benzo[b]fluoranthene	0.021	J	0.038	0.0082	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Benzo[a]pyrene	0.017	J	0.038	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		25 - 110	02/12/16 16:22	02/20/16 01:25	1
Phenol-d5	76		31 - 110	02/12/16 16:22	02/20/16 01:25	1
Nitrobenzene-d5	71		25 - 115	02/12/16 16:22	02/20/16 01:25	1
2-Fluorobiphenyl	66		25 - 119	02/12/16 16:22	02/20/16 01:25	1
2,4,6-Tribromophenol	67		35 - 137	02/12/16 16:22	02/20/16 01:25	1
Terphenyl-d14	95		36 - 134	02/12/16 16:22	02/20/16 01:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Arsenic	6.4		0.54	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Barium	49		0.54	0.099	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Boron	7.7		2.7	0.38	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Cadmium	0.038	J	0.11	0.031	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Calcium	60000	B	110	35	mg/Kg	☼	02/15/16 09:32	02/18/16 00:15	10
Chromium	16	B	0.54	0.093	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Cobalt	9.7		0.27	0.061	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Copper	22		0.54	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Iron	17000	B	11	4.2	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Lead	13		0.27	0.14	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Magnesium	26000	B	5.4	2.2	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Manganese	370		0.54	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Nickel	26		0.54	0.15	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Potassium	1800		27	4.4	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Sodium	210	B	54	7.2	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Vanadium	24		0.27	0.079	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1
Zinc	57		1.1	0.34	mg/Kg	☼	02/15/16 09:32	02/17/16 01:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:33	1
Boron	<0.50		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Date Collected: 02/10/16 13:50

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:33	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:33	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:33	1
Manganese	1.7		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:33	1
Nickel	0.011	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:33	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:33	1
Zinc	0.023	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 10:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:46	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0095	mg/Kg	☼	02/16/16 16:00	02/17/16 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			02/15/16 16:25	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.013		0.013	0.0026	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Benzene	<0.0034		0.0034	0.00074	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Bromodichloromethane	<0.0034		0.0034	0.00057	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Bromoform	<0.0034		0.0034	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Bromomethane	<0.0034		0.0034	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
2-Butanone (MEK)	<0.0034		0.0034	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Carbon disulfide	<0.0034		0.0034	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Carbon tetrachloride	<0.0034		0.0034	0.00072	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Chlorobenzene	<0.0034		0.0034	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Chloroethane	<0.0034	*	0.0034	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Chloroform	<0.0034		0.0034	0.00065	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Chloromethane	<0.0034		0.0034	0.00081	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
cis-1,2-Dichloroethene	<0.0034		0.0034	0.00068	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
cis-1,3-Dichloropropene	<0.0034		0.0034	0.00077	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Dibromochloromethane	<0.0034		0.0034	0.00039	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,1-Dichloroethane	<0.0034		0.0034	0.00069	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,2-Dichloroethane	<0.0034		0.0034	0.00050	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,1-Dichloroethene	<0.0034		0.0034	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,2-Dichloropropane	<0.0034		0.0034	0.00088	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,3-Dichloropropane, Total	<0.0034		0.0034	0.00095	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Ethylbenzene	<0.0034		0.0034	0.00083	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
2-Hexanone	<0.0034		0.0034	0.0010	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Methylene Chloride	<0.0034		0.0034	0.0025	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.00069	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Methyl tert-butyl ether	<0.0034		0.0034	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Styrene	<0.0034		0.0034	0.00079	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,1,2,2-Tetrachloroethane	<0.0034		0.0034	0.00053	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Tetrachloroethene	<0.0034		0.0034	0.00070	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Toluene	<0.0034		0.0034	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
trans-1,2-Dichloroethene	<0.0034		0.0034	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
trans-1,3-Dichloropropene	<0.0034		0.0034	0.00095	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,1,1-Trichloroethane	<0.0034		0.0034	0.00078	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
1,1,2-Trichloroethane	<0.0034		0.0034	0.00065	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Trichloroethene	<0.0034		0.0034	0.00091	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Vinyl acetate	<0.0034		0.0034	0.00090	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Vinyl chloride	<0.0034		0.0034	0.00080	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1
Xylenes, Total	<0.0067		0.0067	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/11/16 08:10	02/17/16 04:43	1
Dibromofluoromethane	96		75 - 120	02/11/16 08:10	02/17/16 04:43	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/11/16 08:10	02/17/16 04:43	1
Toluene-d8 (Surr)	107		75 - 122	02/11/16 08:10	02/17/16 04:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Hexachlorocyclopentadiene	<0.75		0.75	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2-Methylnaphthalene	0.020	J	0.037	0.0069	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Acenaphthene	0.013	J	0.037	0.0067	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Fluorene	0.0097	J	0.037	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Phenanthrene	0.097		0.037	0.0052	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Anthracene	0.0066	J	0.037	0.0063	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Fluoranthene	0.011	J	0.037	0.0069	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Pyrene	0.034	J	0.037	0.0074	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.034	J	0.037	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	102		25 - 110	02/12/16 16:22	02/20/16 01:51	1
Phenol-d5	100		31 - 110	02/12/16 16:22	02/20/16 01:51	1
Nitrobenzene-d5	83		25 - 115	02/12/16 16:22	02/20/16 01:51	1
2-Fluorobiphenyl	78		25 - 119	02/12/16 16:22	02/20/16 01:51	1
2,4,6-Tribromophenol	65		35 - 137	02/12/16 16:22	02/20/16 01:51	1
Terphenyl-d14	109		36 - 134	02/12/16 16:22	02/20/16 01:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Arsenic	6.8		0.45	0.21	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Barium	28		0.45	0.083	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Beryllium	0.52		0.18	0.039	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Boron	10		2.3	0.32	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Cadmium	0.053	J	0.091	0.026	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Calcium	64000	B	91	29	mg/Kg	☼	02/15/16 09:32	02/18/16 00:22	10
Chromium	13	B	0.45	0.078	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Cobalt	12		0.23	0.051	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Copper	28		0.45	0.098	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Iron	16000	B	9.1	3.5	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Lead	16		0.23	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Magnesium	26000	B	4.5	1.8	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Manganese	330		0.45	0.090	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Nickel	31		0.45	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Potassium	2000		23	3.7	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Selenium	0.35	J	0.45	0.22	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Sodium	160	B	45	6.0	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Thallium	0.64		0.45	0.22	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Vanadium	15		0.23	0.066	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1
Zinc	49		0.91	0.29	mg/Kg	☼	02/15/16 09:32	02/17/16 01:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.38	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:39	1
Boron	0.076	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:39	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:39	1
Cobalt	0.019	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:39	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:39	1
Manganese	1.7		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:39	1
Nickel	0.047		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:39	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:39	1
Zinc	0.023	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:39	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.092		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 10:22	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 13:50	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 13:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			02/15/16 16:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.029		0.029	0.0057	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Benzene	<0.0073		0.0073	0.0016	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Bromodichloromethane	<0.0073		0.0073	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Bromoform	<0.0073		0.0073	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Bromomethane	<0.0073		0.0073	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
2-Butanone (MEK)	<0.0073		0.0073	0.0026	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Carbon disulfide	<0.0073		0.0073	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Carbon tetrachloride	<0.0073		0.0073	0.0016	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Chlorobenzene	<0.0073		0.0073	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Chloroethane	<0.0073	*	0.0073	0.0031	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Chloroform	<0.0073		0.0073	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Chloromethane	<0.0073		0.0073	0.0018	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
cis-1,2-Dichloroethene	<0.0073		0.0073	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
cis-1,3-Dichloropropene	<0.0073		0.0073	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Dibromochloromethane	<0.0073		0.0073	0.00084	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,1-Dichloroethane	<0.0073		0.0073	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,2-Dichloroethane	<0.0073		0.0073	0.0011	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,1-Dichloroethene	<0.0073		0.0073	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,2-Dichloropropane	<0.0073		0.0073	0.0019	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,3-Dichloropropane, Total	<0.0073		0.0073	0.0021	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Ethylbenzene	<0.0073		0.0073	0.0018	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
2-Hexanone	<0.0073		0.0073	0.0023	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Methylene Chloride	<0.0073		0.0073	0.0055	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
4-Methyl-2-pentanone (MIBK)	<0.0073		0.0073	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Methyl tert-butyl ether	<0.0073		0.0073	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Styrene	<0.0073		0.0073	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,1,2,2-Tetrachloroethane	<0.0073		0.0073	0.0012	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Tetrachloroethene	<0.0073		0.0073	0.0015	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Toluene	<0.0073		0.0073	0.0025	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
trans-1,2-Dichloroethene	<0.0073		0.0073	0.0018	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
trans-1,3-Dichloropropene	<0.0073		0.0073	0.0021	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,1,1-Trichloroethane	<0.0073		0.0073	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
1,1,2-Trichloroethane	<0.0073		0.0073	0.0014	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Trichloroethene	<0.0073		0.0073	0.0020	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Vinyl acetate	<0.0073		0.0073	0.0020	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Vinyl chloride	<0.0073		0.0073	0.0017	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1
Xylenes, Total	<0.015		0.015	0.0027	mg/Kg	☼	02/11/16 08:10	02/17/16 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/11/16 08:10	02/17/16 05:09	1
Dibromofluoromethane	95		75 - 120	02/11/16 08:10	02/17/16 05:09	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/11/16 08:10	02/17/16 05:09	1
Toluene-d8 (Surr)	106		75 - 122	02/11/16 08:10	02/17/16 05:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Naphthalene	0.039		0.039	0.0060	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2-Methylnaphthalene	0.093		0.039	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Acenaphthene	0.0079	J	0.039	0.0070	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Fluorene	0.010	J	0.039	0.0055	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Phenanthrene	0.11		0.039	0.0054	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Fluoranthene	0.011	J	0.039	0.0072	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Pyrene	0.035	J	0.039	0.0078	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Benzo[a]anthracene	0.0055	J	0.039	0.0053	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.031	J	0.039	0.011	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/12/16 16:22	02/20/16 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		25 - 110	02/12/16 16:22	02/20/16 02:17	1
Phenol-d5	88		31 - 110	02/12/16 16:22	02/20/16 02:17	1
Nitrobenzene-d5	75		25 - 115	02/12/16 16:22	02/20/16 02:17	1
2-Fluorobiphenyl	71		25 - 119	02/12/16 16:22	02/20/16 02:17	1
2,4,6-Tribromophenol	67		35 - 137	02/12/16 16:22	02/20/16 02:17	1
Terphenyl-d14	116		36 - 134	02/12/16 16:22	02/20/16 02:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Arsenic	9.5		0.49	0.23	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Barium	32		0.49	0.091	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Beryllium	0.49		0.20	0.043	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Boron	12		2.5	0.35	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Calcium	68000	B	99	32	mg/Kg	☼	02/15/16 09:32	02/18/16 00:44	10
Chromium	20	B	0.49	0.085	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Cobalt	13		0.25	0.056	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Copper	28		0.49	0.11	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Iron	18000	B	9.9	3.8	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Lead	15		0.25	0.12	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Magnesium	31000	B	4.9	2.0	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Manganese	370		0.49	0.098	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Nickel	33		0.49	0.13	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Potassium	2000		25	4.0	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Selenium	<0.49		0.49	0.25	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Silver	0.058	J	0.25	0.058	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Sodium	170	B	49	6.5	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Thallium	0.45	J	0.49	0.24	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Vanadium	16		0.25	0.072	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1
Zinc	55		0.99	0.31	mg/Kg	☼	02/15/16 09:32	02/17/16 01:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.46	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 18:46	1
Boron	0.091	J	0.50	0.050	mg/L		02/14/16 08:30	02/15/16 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 84.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:46	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:46	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 18:46	1
Manganese	1.5		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:46	1
Nickel	0.037		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 18:46	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 18:46	1
Zinc	0.020	J B	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 18:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.46		0.025	0.010	mg/L		02/14/16 08:30	02/16/16 10:44	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 14:06	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 14:06	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			02/15/16 16:29	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

GC/MS VOA

Prep Batch: 322948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	5035	
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	5035	
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	5035	
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	5035	
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	5035	
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	5035	
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	5035	
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	5035	
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	5035	
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	5035	
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	5035	
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	5035	
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	5035	
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	5035	
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	5035	

Analysis Batch: 323072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	8260B	322948
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	8260B	322948
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	8260B	322948
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	8260B	322948
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	8260B	322948
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	8260B	322948
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	8260B	322948
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	8260B	322948
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	8260B	322948
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	8260B	322948
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	8260B	322948
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	8260B	322948
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	8260B	322948
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	8260B	322948
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	8260B	322948
LCS 500-323072/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323072/28	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323072/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 322677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	3541	
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	3541	
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	3541	
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	3541	
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	3541	
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	3541	
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	3541	
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	3541	
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

GC/MS Semi VOA (Continued)

Prep Batch: 322677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	3541	
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	3541	
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	3541	
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	3541	
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	3541	
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	3541	
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	3541	
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	3541	
LCS 500-322677/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322677/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 323674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	8270D	322677
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	8270D	322677
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	8270D	322677
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	8270D	322677
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	8270D	322677
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	8270D	322677
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	8270D	322677
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	8270D	322677
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	8270D	322677
LCS 500-322677/2-A	Lab Control Sample	Total/NA	Solid	8270D	322677
MB 500-322677/1-A	Method Blank	Total/NA	Solid	8270D	322677

Analysis Batch: 323704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	8270D	322677
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	8270D	322677
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	8270D	322677
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	8270D	322677
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	8270D	322677

Analysis Batch: 323785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	8270D	322677
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	8270D	322677
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	8270D	322677

Metals

Leach Batch: 322655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	TCLP	Solid	1311	
500-107457-1 DU	2746-01B-B02 (0-3)	TCLP	Solid	1311	
500-107457-1 MS	2746-01B-B02 (0-3)	TCLP	Solid	1311	
500-107457-2	2746-01B-B01 (0-8)	TCLP	Solid	1311	
500-107457-2 DU	2746-01B-B01 (0-8)	TCLP	Solid	1311	
500-107457-2 MS	2746-01B-B01 (0-8)	TCLP	Solid	1311	
500-107457-3	2746-01B-B01 (0-8)D	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Metals (Continued)

Leach Batch: 322655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-4	2746-01-B42 (0-6)	TCLP	Solid	1311	
500-107457-5	2746-01-B42 (6-11)	TCLP	Solid	1311	
500-107457-6	2746-01-B41 (0-5)	TCLP	Solid	1311	
500-107457-7	2746-01-B41 (5-10)	TCLP	Solid	1311	
500-107457-8	2746-01-B40 (0-8)	TCLP	Solid	1311	
500-107457-9	2746-01-B39 (0-8)	TCLP	Solid	1311	
500-107457-10	2746-01-B38 (0-8)	TCLP	Solid	1311	
500-107457-11	2746-01-B21 (0-7)	TCLP	Solid	1311	
500-107457-12	2746-01-B21 (7-14)	TCLP	Solid	1311	
500-107457-13	2746-01-B20 (0-7)	TCLP	Solid	1311	
500-107457-14	2746-01-B20 (7-14)	TCLP	Solid	1311	
500-107457-15	2746-01-B20 (14-20)	TCLP	Solid	1311	
LB 500-322655/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322655/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	SPLP East	Solid	1312	
500-107457-2	2746-01B-B01 (0-8)	SPLP East	Solid	1312	
500-107457-3	2746-01B-B01 (0-8)D	SPLP East	Solid	1312	
500-107457-4	2746-01-B42 (0-6)	SPLP East	Solid	1312	
500-107457-5	2746-01-B42 (6-11)	SPLP East	Solid	1312	
500-107457-6	2746-01-B41 (0-5)	SPLP East	Solid	1312	
500-107457-7	2746-01-B41 (5-10)	SPLP East	Solid	1312	
500-107457-8	2746-01-B40 (0-8)	SPLP East	Solid	1312	
500-107457-9	2746-01-B39 (0-8)	SPLP East	Solid	1312	
500-107457-10	2746-01-B38 (0-8)	SPLP East	Solid	1312	
500-107457-11	2746-01-B21 (0-7)	SPLP East	Solid	1312	
500-107457-12	2746-01-B21 (7-14)	SPLP East	Solid	1312	
500-107457-13	2746-01-B20 (0-7)	SPLP East	Solid	1312	
500-107457-14	2746-01-B20 (7-14)	SPLP East	Solid	1312	
500-107457-15	2746-01-B20 (14-20)	SPLP East	Solid	1312	
LB 500-322661/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 322745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	TCLP	Solid	3010A	322655
500-107457-1 DU	2746-01B-B02 (0-3)	TCLP	Solid	3010A	322655
500-107457-1 MS	2746-01B-B02 (0-3)	TCLP	Solid	3010A	322655
500-107457-2	2746-01B-B01 (0-8)	TCLP	Solid	3010A	322655
500-107457-3	2746-01B-B01 (0-8)D	TCLP	Solid	3010A	322655
500-107457-4	2746-01-B42 (0-6)	TCLP	Solid	3010A	322655
500-107457-5	2746-01-B42 (6-11)	TCLP	Solid	3010A	322655
500-107457-6	2746-01-B41 (0-5)	TCLP	Solid	3010A	322655
500-107457-7	2746-01-B41 (5-10)	TCLP	Solid	3010A	322655
500-107457-8	2746-01-B40 (0-8)	TCLP	Solid	3010A	322655
500-107457-9	2746-01-B39 (0-8)	TCLP	Solid	3010A	322655
500-107457-10	2746-01-B38 (0-8)	TCLP	Solid	3010A	322655
500-107457-11	2746-01-B21 (0-7)	TCLP	Solid	3010A	322655
500-107457-12	2746-01-B21 (7-14)	TCLP	Solid	3010A	322655
500-107457-13	2746-01-B20 (0-7)	TCLP	Solid	3010A	322655

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Metals (Continued)

Prep Batch: 322745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-14	2746-01-B20 (7-14)	TCLP	Solid	3010A	322655
500-107457-15	2746-01-B20 (14-20)	TCLP	Solid	3010A	322655
LB 500-322655/1-B	Method Blank	TCLP	Solid	3010A	322655
LCS 500-322745/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	SPLP East	Solid	3010A	322661
500-107457-2	2746-01B-B01 (0-8)	SPLP East	Solid	3010A	322661
500-107457-3	2746-01B-B01 (0-8)D	SPLP East	Solid	3010A	322661
500-107457-4	2746-01-B42 (0-6)	SPLP East	Solid	3010A	322661
500-107457-5	2746-01-B42 (6-11)	SPLP East	Solid	3010A	322661
500-107457-6	2746-01-B41 (0-5)	SPLP East	Solid	3010A	322661
500-107457-7	2746-01-B41 (5-10)	SPLP East	Solid	3010A	322661
500-107457-8	2746-01-B40 (0-8)	SPLP East	Solid	3010A	322661
500-107457-9	2746-01-B39 (0-8)	SPLP East	Solid	3010A	322661
500-107457-10	2746-01-B38 (0-8)	SPLP East	Solid	3010A	322661
500-107457-11	2746-01-B21 (0-7)	SPLP East	Solid	3010A	322661
500-107457-12	2746-01-B21 (7-14)	SPLP East	Solid	3010A	322661
500-107457-13	2746-01-B20 (0-7)	SPLP East	Solid	3010A	322661
500-107457-14	2746-01-B20 (7-14)	SPLP East	Solid	3010A	322661
500-107457-15	2746-01-B20 (14-20)	SPLP East	Solid	3010A	322661
LB 500-322661/1-B	Method Blank	SPLP East	Solid	3010A	322661
LCS 500-322747/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 322859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	3050B	
500-107457-1 DU	2746-01B-B02 (0-3)	Total/NA	Solid	3050B	
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	3050B	
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	3050B	
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	3050B	
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	3050B	
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	3050B	
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	3050B	
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	3050B	
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	3050B	
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	3050B	
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	3050B	
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	3050B	
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	3050B	
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	3050B	
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	3050B	
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	3050B	
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	3050B	
LCS 500-322859/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-322859/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 322903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	TCLP	Solid	7470A	322655

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Metals (Continued)

Prep Batch: 322903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-2	2746-01B-B01 (0-8)	TCLP	Solid	7470A	322655
500-107457-2 DU	2746-01B-B01 (0-8)	TCLP	Solid	7470A	322655
500-107457-2 MS	2746-01B-B01 (0-8)	TCLP	Solid	7470A	322655
500-107457-3	2746-01B-B01 (0-8)D	TCLP	Solid	7470A	322655
500-107457-4	2746-01-B42 (0-6)	TCLP	Solid	7470A	322655
500-107457-5	2746-01-B42 (6-11)	TCLP	Solid	7470A	322655
500-107457-6	2746-01-B41 (0-5)	TCLP	Solid	7470A	322655
500-107457-7	2746-01-B41 (5-10)	TCLP	Solid	7470A	322655
500-107457-8	2746-01-B40 (0-8)	TCLP	Solid	7470A	322655
500-107457-9	2746-01-B39 (0-8)	TCLP	Solid	7470A	322655
500-107457-10	2746-01-B38 (0-8)	TCLP	Solid	7470A	322655
500-107457-11	2746-01-B21 (0-7)	TCLP	Solid	7470A	322655
500-107457-12	2746-01-B21 (7-14)	TCLP	Solid	7470A	322655
500-107457-13	2746-01-B20 (0-7)	TCLP	Solid	7470A	322655
500-107457-14	2746-01-B20 (7-14)	TCLP	Solid	7470A	322655
500-107457-15	2746-01-B20 (14-20)	TCLP	Solid	7470A	322655
LB 500-322655/1-C	Method Blank	TCLP	Solid	7470A	322655
LCS 500-322903/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-322903/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 323024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	TCLP	Solid	6010B	322745
500-107457-1 DU	2746-01B-B02 (0-3)	TCLP	Solid	6010B	322745
500-107457-1 MS	2746-01B-B02 (0-3)	TCLP	Solid	6010B	322745
500-107457-2	2746-01B-B01 (0-8)	TCLP	Solid	6010B	322745
500-107457-3	2746-01B-B01 (0-8)D	TCLP	Solid	6010B	322745
500-107457-4	2746-01-B42 (0-6)	TCLP	Solid	6010B	322745
500-107457-5	2746-01-B42 (6-11)	TCLP	Solid	6010B	322745
500-107457-6	2746-01-B41 (0-5)	TCLP	Solid	6010B	322745
500-107457-7	2746-01-B41 (5-10)	TCLP	Solid	6010B	322745
500-107457-8	2746-01-B40 (0-8)	TCLP	Solid	6010B	322745
500-107457-9	2746-01-B39 (0-8)	TCLP	Solid	6010B	322745
500-107457-10	2746-01-B38 (0-8)	TCLP	Solid	6010B	322745
500-107457-11	2746-01-B21 (0-7)	TCLP	Solid	6010B	322745
500-107457-12	2746-01-B21 (7-14)	TCLP	Solid	6010B	322745
500-107457-13	2746-01-B20 (0-7)	TCLP	Solid	6010B	322745
500-107457-14	2746-01-B20 (7-14)	TCLP	Solid	6010B	322745
500-107457-15	2746-01-B20 (14-20)	TCLP	Solid	6010B	322745
LB 500-322655/1-B	Method Blank	TCLP	Solid	6010B	322745
LCS 500-322745/3-A	Lab Control Sample	Total/NA	Solid	6010B	322745

Analysis Batch: 323031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	TCLP	Solid	7470A	322903
500-107457-2	2746-01B-B01 (0-8)	TCLP	Solid	7470A	322903
500-107457-2 DU	2746-01B-B01 (0-8)	TCLP	Solid	7470A	322903
500-107457-2 MS	2746-01B-B01 (0-8)	TCLP	Solid	7470A	322903
500-107457-3	2746-01B-B01 (0-8)D	TCLP	Solid	7470A	322903
500-107457-4	2746-01-B42 (0-6)	TCLP	Solid	7470A	322903
500-107457-5	2746-01-B42 (6-11)	TCLP	Solid	7470A	322903

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Metals (Continued)

Analysis Batch: 323031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-6	2746-01-B41 (0-5)	TCLP	Solid	7470A	322903
500-107457-7	2746-01-B41 (5-10)	TCLP	Solid	7470A	322903
500-107457-8	2746-01-B40 (0-8)	TCLP	Solid	7470A	322903
500-107457-9	2746-01-B39 (0-8)	TCLP	Solid	7470A	322903
500-107457-10	2746-01-B38 (0-8)	TCLP	Solid	7470A	322903
500-107457-11	2746-01-B21 (0-7)	TCLP	Solid	7470A	322903
500-107457-12	2746-01-B21 (7-14)	TCLP	Solid	7470A	322903
500-107457-13	2746-01-B20 (0-7)	TCLP	Solid	7470A	322903
500-107457-14	2746-01-B20 (7-14)	TCLP	Solid	7470A	322903
500-107457-15	2746-01-B20 (14-20)	TCLP	Solid	7470A	322903
LB 500-322655/1-C	Method Blank	TCLP	Solid	7470A	322903
LCS 500-322903/13-A	Lab Control Sample	Total/NA	Solid	7470A	322903
MB 500-322903/12-A	Method Blank	Total/NA	Solid	7470A	322903

Prep Batch: 323038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	
500-107457-1 DU	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	7471B	
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	7471B	
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	7471B	
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	7471B	
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	7471B	
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	7471B	
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	7471B	
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	7471B	
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	7471B	
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	7471B	
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	7471B	
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	7471B	
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	7471B	
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	7471B	
LCS 500-323038/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-323038/12-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 323044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-5	2746-01-B42 (6-11)	SPLP East	Solid	6010B	322747
500-107457-6	2746-01-B41 (0-5)	SPLP East	Solid	6010B	322747
500-107457-7	2746-01-B41 (5-10)	SPLP East	Solid	6010B	322747
500-107457-8	2746-01-B40 (0-8)	SPLP East	Solid	6010B	322747
500-107457-9	2746-01-B39 (0-8)	SPLP East	Solid	6010B	322747
500-107457-10	2746-01-B38 (0-8)	SPLP East	Solid	6010B	322747
500-107457-11	2746-01-B21 (0-7)	SPLP East	Solid	6010B	322747
500-107457-12	2746-01-B21 (7-14)	SPLP East	Solid	6010B	322747
500-107457-13	2746-01-B20 (0-7)	SPLP East	Solid	6010B	322747
500-107457-14	2746-01-B20 (7-14)	SPLP East	Solid	6010B	322747
500-107457-15	2746-01-B20 (14-20)	SPLP East	Solid	6010B	322747

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Metals (Continued)

Analysis Batch: 323151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-1 DU	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	6010B	322859
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	6010B	322859
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	6010B	322859
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	6010B	322859
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	6010B	322859
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	6010B	322859
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	6010B	322859
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	6010B	322859
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	6010B	322859
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	6010B	322859
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	6010B	322859
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	6010B	322859
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	6010B	322859
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	6010B	322859
LCS 500-322859/2-A	Lab Control Sample	Total/NA	Solid	6010B	322859
MB 500-322859/1-A	Method Blank	Total/NA	Solid	6010B	322859

Analysis Batch: 323157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	SPLP East	Solid	6010B	322747
500-107457-2	2746-01B-B01 (0-8)	SPLP East	Solid	6010B	322747
500-107457-3	2746-01B-B01 (0-8)D	SPLP East	Solid	6010B	322747
500-107457-4	2746-01-B42 (0-6)	SPLP East	Solid	6010B	322747
LB 500-322661/1-B	Method Blank	SPLP East	Solid	6010B	322747
LCS 500-322747/3-A	Lab Control Sample	Total/NA	Solid	6010B	322747

Analysis Batch: 323182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	TCLP	Solid	6020A	322745
500-107457-1 DU	2746-01B-B02 (0-3)	TCLP	Solid	6020A	322745
500-107457-1 MS	2746-01B-B02 (0-3)	TCLP	Solid	6020A	322745
500-107457-2	2746-01B-B01 (0-8)	TCLP	Solid	6020A	322745
500-107457-3	2746-01B-B01 (0-8)D	TCLP	Solid	6020A	322745
500-107457-4	2746-01-B42 (0-6)	TCLP	Solid	6020A	322745
500-107457-5	2746-01-B42 (6-11)	TCLP	Solid	6020A	322745
500-107457-6	2746-01-B41 (0-5)	TCLP	Solid	6020A	322745
500-107457-7	2746-01-B41 (5-10)	TCLP	Solid	6020A	322745
500-107457-8	2746-01-B40 (0-8)	TCLP	Solid	6020A	322745
500-107457-9	2746-01-B39 (0-8)	TCLP	Solid	6020A	322745
500-107457-10	2746-01-B38 (0-8)	TCLP	Solid	6020A	322745
500-107457-11	2746-01-B21 (0-7)	TCLP	Solid	6020A	322745
500-107457-12	2746-01-B21 (7-14)	TCLP	Solid	6020A	322745
500-107457-13	2746-01-B20 (0-7)	TCLP	Solid	6020A	322745
500-107457-14	2746-01-B20 (7-14)	TCLP	Solid	6020A	322745
500-107457-15	2746-01-B20 (14-20)	TCLP	Solid	6020A	322745
LB 500-322655/1-B	Method Blank	TCLP	Solid	6020A	322745
LCS 500-322745/3-A	Lab Control Sample	Total/NA	Solid	6020A	322745

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Analysis Batch: 323301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	323038
500-107457-1 DU	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	323038
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	323038
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	7471B	323038
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	7471B	323038
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	7471B	323038
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	7471B	323038
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	7471B	323038
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	7471B	323038
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	7471B	323038
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	7471B	323038
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	7471B	323038
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	7471B	323038
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	7471B	323038
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	7471B	323038
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	7471B	323038
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	7471B	323038
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	7471B	323038
LCS 500-323038/13-A	Lab Control Sample	Total/NA	Solid	7471B	323038
MB 500-323038/12-A	Method Blank	Total/NA	Solid	7471B	323038

Analysis Batch: 323340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-1 DU	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-1 MS	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-1 MSD	2746-01B-B02 (0-3)	Total/NA	Solid	6010B	322859
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	6010B	322859
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	6010B	322859
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	6010B	322859
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	6010B	322859
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	6010B	322859
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	6010B	322859
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	6010B	322859
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	6010B	322859
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	6010B	322859
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	6010B	322859
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	6010B	322859
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	6010B	322859
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	6010B	322859
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	6010B	322859

General Chemistry

Analysis Batch: 322480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	Moisture	
500-107457-1 DU	2746-01B-B02 (0-3)	Total/NA	Solid	Moisture	
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	Moisture	
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	Moisture	
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	Moisture	
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	Moisture	
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

General Chemistry (Continued)

Analysis Batch: 322480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	Moisture	
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	Moisture	
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	Moisture	
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	Moisture	
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	Moisture	
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	Moisture	
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	Moisture	
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	Moisture	
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	Moisture	

Analysis Batch: 322930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107457-1	2746-01B-B02 (0-3)	Total/NA	Solid	9045D	
500-107457-2	2746-01B-B01 (0-8)	Total/NA	Solid	9045D	
500-107457-3	2746-01B-B01 (0-8)D	Total/NA	Solid	9045D	
500-107457-4	2746-01-B42 (0-6)	Total/NA	Solid	9045D	
500-107457-5	2746-01-B42 (6-11)	Total/NA	Solid	9045D	
500-107457-6	2746-01-B41 (0-5)	Total/NA	Solid	9045D	
500-107457-7	2746-01-B41 (5-10)	Total/NA	Solid	9045D	
500-107457-8	2746-01-B40 (0-8)	Total/NA	Solid	9045D	
500-107457-9	2746-01-B39 (0-8)	Total/NA	Solid	9045D	
500-107457-10	2746-01-B38 (0-8)	Total/NA	Solid	9045D	
500-107457-11	2746-01-B21 (0-7)	Total/NA	Solid	9045D	
500-107457-12	2746-01-B21 (7-14)	Total/NA	Solid	9045D	
500-107457-13	2746-01-B20 (0-7)	Total/NA	Solid	9045D	
500-107457-14	2746-01-B20 (7-14)	Total/NA	Solid	9045D	
500-107457-15	2746-01-B20 (14-20)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-107457-1	2746-01B-B02 (0-3)	92	92	91	103
500-107457-2	2746-01B-B01 (0-8)	95	94	91	107
500-107457-3	2746-01B-B01 (0-8)D	94	97	92	106
500-107457-4	2746-01-B42 (0-6)	88	97	87	105
500-107457-5	2746-01-B42 (6-11)	91	95	88	105
500-107457-6	2746-01-B41 (0-5)	94	95	94	107
500-107457-7	2746-01-B41 (5-10)	94	94	92	105
500-107457-8	2746-01-B40 (0-8)	89	100	93	106
500-107457-9	2746-01-B39 (0-8)	93	96	88	105
500-107457-10	2746-01-B38 (0-8)	92	99	95	105
500-107457-11	2746-01-B21 (0-7)	96	99	94	102
500-107457-12	2746-01-B21 (7-14)	93	94	88	104
500-107457-13	2746-01-B20 (0-7)	92	96	89	103
500-107457-14	2746-01-B20 (7-14)	91	96	87	107
500-107457-15	2746-01-B20 (14-20)	90	95	92	106
LCS 500-323072/3	Lab Control Sample	94	89	81	105
LCSD 500-323072/28	Lab Control Sample Dup	100	91	79	106
MB 500-323072/4	Method Blank	95	92	82	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107457-1	2746-01B-B02 (0-3)	71	103	94	90	50	198 X
500-107457-1 MS	2746-01B-B02 (0-3)	91	97	92	103	44	195 X
500-107457-1 MSD	2746-01B-B02 (0-3)	90	95	86	100	40	193 X
500-107457-2	2746-01B-B01 (0-8)	92	92	82	78	65	200 X
500-107457-3	2746-01B-B01 (0-8)D	89	87	75	75	64	190 X
500-107457-4	2746-01-B42 (0-6)	99	93	80	76	64	186 X
500-107457-5	2746-01-B42 (6-11)	79	77	72	81	84	97
500-107457-6	2746-01-B41 (0-5)	100	95	78	79	63	220 X
500-107457-7	2746-01-B41 (5-10)	80	81	75	82	71	97
500-107457-8	2746-01-B40 (0-8)	70	75	68	79	76	124
500-107457-9	2746-01-B39 (0-8)	66	72	65	74	75	124
500-107457-10	2746-01-B38 (0-8)	67	70	63	72	65	133
500-107457-11	2746-01-B21 (0-7)	87	84	71	64	49	86
500-107457-12	2746-01-B21 (7-14)	84	82	69	65	55	86
500-107457-13	2746-01-B20 (0-7)	85	76	71	66	67	95
500-107457-14	2746-01-B20 (7-14)	102	100	83	78	65	109
500-107457-15	2746-01-B20 (14-20)	91	88	75	71	67	116
LCS 500-322677/2-A	Lab Control Sample	102	95	86	77	75	93

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
MB 500-322677/1-A	Method Blank	90	81	79	73	29 X	84

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-323072/4

Matrix: Solid

Analysis Batch: 323072

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 21:56	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:56	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 21:56	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:56	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 21:56	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 21:56	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:56	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 21:56	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 21:56	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:56	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:56	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 21:56	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 21:56	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 21:56	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 21:56	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:56	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:56	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 21:56	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:56	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:56	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		02/16/16 21:56	1
Dibromofluoromethane	92		75 - 120		02/16/16 21:56	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		02/16/16 21:56	1
Toluene-d8 (Surr)	103		75 - 122		02/16/16 21:56	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323072/3

Matrix: Solid

Analysis Batch: 323072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0566		mg/Kg		113	50 - 133
Benzene	0.0500	0.0553		mg/Kg		111	70 - 120
Bromodichloromethane	0.0500	0.0465		mg/Kg		93	69 - 120
Bromoform	0.0500	0.0431		mg/Kg		86	51 - 127
Bromomethane	0.0500	0.0399		mg/Kg		80	69 - 120
2-Butanone (MEK)	0.0500	0.0599		mg/Kg		120	50 - 148
Carbon disulfide	0.0500	0.0496		mg/Kg		99	58 - 120
Carbon tetrachloride	0.0500	0.0406		mg/Kg		81	51 - 124
Chlorobenzene	0.0500	0.0491		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0655	*	mg/Kg		131	49 - 125
Chloroform	0.0500	0.0489		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0558		mg/Kg		112	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 120
Dibromochloromethane	0.0500	0.0466		mg/Kg		93	69 - 126
1,1-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 120
1,2-Dichloroethane	0.0500	0.0409		mg/Kg		82	70 - 128
1,1-Dichloroethene	0.0500	0.0460		mg/Kg		92	67 - 120
1,2-Dichloropropane	0.0500	0.0527		mg/Kg		105	70 - 120
Ethylbenzene	0.0500	0.0515		mg/Kg		103	70 - 120
2-Hexanone	0.0500	0.0574		mg/Kg		115	50 - 150
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0604		mg/Kg		121	50 - 150
Methyl tert-butyl ether	0.0500	0.0491		mg/Kg		98	70 - 120
Styrene	0.0500	0.0522		mg/Kg		104	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0553		mg/Kg		111	70 - 133
Tetrachloroethene	0.0500	0.0454		mg/Kg		91	70 - 120
Toluene	0.0500	0.0524		mg/Kg		105	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 120
1,1,1-Trichloroethane	0.0500	0.0434		mg/Kg		87	70 - 120
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 120
Trichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120
Vinyl acetate	0.0500	0.0537		mg/Kg		107	60 - 150
Vinyl chloride	0.0500	0.0478		mg/Kg		96	69 - 120
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 122
Dibromofluoromethane	89		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	105		75 - 122

Lab Sample ID: LCSD 500-323072/28

Matrix: Solid

Analysis Batch: 323072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0615		mg/Kg		123	50 - 133	8	30
Benzene	0.0500	0.0562		mg/Kg		112	70 - 120	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323072/28
Matrix: Solid
Analysis Batch: 323072

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0482		mg/Kg		96	69 - 120	4	30
Bromoform	0.0500	0.0455		mg/Kg		91	51 - 127	6	30
Bromomethane	0.0500	0.0406		mg/Kg		81	69 - 120	2	30
2-Butanone (MEK)	0.0500	0.0587		mg/Kg		117	50 - 148	2	30
Carbon disulfide	0.0500	0.0494		mg/Kg		99	58 - 120	0	30
Carbon tetrachloride	0.0500	0.0399		mg/Kg		80	51 - 124	2	30
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120	1	30
Chloroethane	0.0500	0.0390	*	mg/Kg		78	49 - 125	51	30
Chloroform	0.0500	0.0499		mg/Kg		100	70 - 120	2	30
Chloromethane	0.0500	0.0553		mg/Kg		111	63 - 126	1	30
cis-1,2-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 120	0	30
Dibromochloromethane	0.0500	0.0477		mg/Kg		95	69 - 126	2	30
1,1-Dichloroethane	0.0500	0.0508		mg/Kg		102	70 - 120	2	30
1,2-Dichloroethane	0.0500	0.0424		mg/Kg		85	70 - 128	4	30
1,1-Dichloroethene	0.0500	0.0467		mg/Kg		93	67 - 120	2	30
1,2-Dichloropropane	0.0500	0.0536		mg/Kg		107	70 - 120	2	30
Ethylbenzene	0.0500	0.0528		mg/Kg		106	70 - 120	2	30
2-Hexanone	0.0500	0.0565		mg/Kg		113	50 - 150	2	30
Methylene Chloride	0.0500	0.0543		mg/Kg		109	70 - 120	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0586		mg/Kg		117	50 - 150	3	30
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	70 - 120	1	30
Styrene	0.0500	0.0536		mg/Kg		107	70 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0533		mg/Kg		107	70 - 133	4	30
Tetrachloroethene	0.0500	0.0454		mg/Kg		91	70 - 120	0	30
Toluene	0.0500	0.0533		mg/Kg		107	70 - 120	2	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 120	0	30
1,1,1-Trichloroethane	0.0500	0.0417		mg/Kg		83	70 - 120	4	30
1,1,2-Trichloroethane	0.0500	0.0514		mg/Kg		103	70 - 120	2	30
Trichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120	1	30
Vinyl acetate	0.0500	0.0483		mg/Kg		97	60 - 150	11	30
Vinyl chloride	0.0500	0.0485		mg/Kg		97	69 - 120	1	30
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322677/1-A
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/12/16 16:22	02/19/16 23:41	1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322677/1-A
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322677

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/12/16 16:22	02/19/16 23:41	1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322677/1-A
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/12/16 16:22	02/19/16 23:41	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/12/16 16:22	02/19/16 23:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		25 - 110	02/12/16 16:22	02/19/16 23:41	1
Phenol-d5	81		31 - 110	02/12/16 16:22	02/19/16 23:41	1
Nitrobenzene-d5	79		25 - 115	02/12/16 16:22	02/19/16 23:41	1
2-Fluorobiphenyl	73		25 - 119	02/12/16 16:22	02/19/16 23:41	1
2,4,6-Tribromophenol	29	X	35 - 137	02/12/16 16:22	02/19/16 23:41	1
Terphenyl-d14	84		36 - 134	02/12/16 16:22	02/19/16 23:41	1

Lab Sample ID: LCS 500-322677/2-A
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.37		mg/Kg		103	41 - 110
Bis(2-chloroethyl)ether	1.33	1.21		mg/Kg		91	32 - 110
1,3-Dichlorobenzene	1.33	1.17		mg/Kg		88	44 - 110
1,4-Dichlorobenzene	1.33	1.21		mg/Kg		90	45 - 110
1,2-Dichlorobenzene	1.33	1.21		mg/Kg		90	48 - 110
2-Methylphenol	1.33	1.28		mg/Kg		96	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	1.07		mg/Kg		80	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.29		mg/Kg		97	24 - 123
Hexachloroethane	1.33	1.18		mg/Kg		88	44 - 110
2-Chlorophenol	1.33	1.30		mg/Kg		98	47 - 114
Nitrobenzene	1.33	1.16		mg/Kg		87	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.21		mg/Kg		91	42 - 110
1,2,4-Trichlorobenzene	1.33	1.23		mg/Kg		92	49 - 110
Isophorone	1.33	1.22		mg/Kg		91	35 - 110
2,4-Dimethylphenol	1.33	1.26		mg/Kg		95	49 - 110
Hexachlorobutadiene	1.33	1.21		mg/Kg		91	47 - 114
Naphthalene	1.33	1.19		mg/Kg		89	48 - 110
2,4-Dichlorophenol	1.33	1.20		mg/Kg		90	53 - 113
4-Chloroaniline	1.33	1.42		mg/Kg		107	16 - 118
2,4,6-Trichlorophenol	1.33	0.994		mg/Kg		75	44 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322677/2-A
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-Trichlorophenol	1.33	0.966		mg/Kg		72	41 - 120
Hexachlorocyclopentadiene	1.33	0.412	J	mg/Kg		31	10 - 110
2-Methylnaphthalene	1.33	1.16		mg/Kg		87	48 - 110
2-Nitroaniline	1.33	1.03		mg/Kg		77	42 - 122
2-Chloronaphthalene	1.33	1.09		mg/Kg		82	52 - 114
4-Chloro-3-methylphenol	1.33	1.18		mg/Kg		89	52 - 111
2,6-Dinitrotoluene	1.33	1.10		mg/Kg		82	54 - 117
2-Nitrophenol	1.33	1.18		mg/Kg		89	48 - 113
3-Nitroaniline	1.33	0.961		mg/Kg		72	36 - 131
Dimethyl phthalate	1.33	1.09		mg/Kg		82	56 - 113
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		16	10 - 110
Acenaphthylene	1.33	1.08		mg/Kg		81	49 - 110
2,4-Dinitrotoluene	1.33	1.08		mg/Kg		81	53 - 122
Acenaphthene	1.33	0.965		mg/Kg		72	46 - 110
Dibenzofuran	1.33	1.07		mg/Kg		80	51 - 119
4-Nitrophenol	2.67	1.84		mg/Kg		69	10 - 157
Fluorene	1.33	1.06		mg/Kg		80	47 - 121
4-Nitroaniline	1.33	1.06		mg/Kg		80	28 - 157
4-Bromophenyl phenyl ether	1.33	1.28		mg/Kg		96	55 - 113
Hexachlorobenzene	1.33	1.26		mg/Kg		94	54 - 114
Diethyl phthalate	1.33	1.08		mg/Kg		81	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.09		mg/Kg		81	53 - 117
Pentachlorophenol	2.67	1.11		mg/Kg		42	10 - 124
N-Nitrosodiphenylamine	1.33	1.24		mg/Kg		93	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.532	J	mg/Kg		20	10 - 110
Phenanthrene	1.33	1.23		mg/Kg		92	48 - 121
Anthracene	1.33	1.23		mg/Kg		93	48 - 118
Carbazole	1.33	1.36		mg/Kg		102	26 - 188
Di-n-butyl phthalate	1.33	1.29		mg/Kg		97	50 - 128
Fluoranthene	1.33	1.27		mg/Kg		95	48 - 128
Pyrene	1.33	1.22		mg/Kg		92	46 - 114
Butyl benzyl phthalate	1.33	1.24		mg/Kg		93	49 - 121
Benzo[a]anthracene	1.33	1.17		mg/Kg		87	49 - 121
Chrysene	1.33	1.28		mg/Kg		96	45 - 118
3,3'-Dichlorobenzidine	1.33	0.949		mg/Kg		71	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.25		mg/Kg		94	47 - 133
Di-n-octyl phthalate	1.33	1.26		mg/Kg		94	46 - 138
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		92	54 - 122
Benzo[k]fluoranthene	1.33	1.24		mg/Kg		93	44 - 137
Benzo[a]pyrene	1.33	1.28		mg/Kg		96	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.26		mg/Kg		95	49 - 132
Dibenz(a,h)anthracene	1.33	1.26		mg/Kg		95	48 - 134
Benzo[g,h,i]perylene	1.33	1.28		mg/Kg		96	52 - 125
3 & 4 Methylphenol	1.33	1.37		mg/Kg		103	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	102		25 - 110
Phenol-d5	95		31 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322677/2-A
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322677

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	86		25 - 115
2-Fluorobiphenyl	77		25 - 119
2,4,6-Tribromophenol	75		35 - 137
Terphenyl-d14	93		36 - 134

Lab Sample ID: 500-107457-1 MS
Matrix: Solid
Analysis Batch: 323674

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 322677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.89		1.43	1.50		mg/Kg	☼	105	41 - 110
Bis(2-chloroethyl)ether	<0.89		1.43	0.986		mg/Kg	☼	69	32 - 110
1,3-Dichlorobenzene	<0.89		1.43	1.29		mg/Kg	☼	91	44 - 110
1,4-Dichlorobenzene	<0.89		1.43	1.32		mg/Kg	☼	93	45 - 110
1,2-Dichlorobenzene	<0.89		1.43	1.30		mg/Kg	☼	92	48 - 110
2-Methylphenol	<0.89		1.43	1.39		mg/Kg	☼	97	44 - 110
2,2'-oxybis[1-chloropropane]	<0.89		1.43	1.14		mg/Kg	☼	80	30 - 115
N-Nitrosodi-n-propylamine	<0.36		1.43	1.37		mg/Kg	☼	96	24 - 123
Hexachloroethane	<0.89	F1	1.43	<0.89	F1	mg/Kg	☼	0	44 - 110
2-Chlorophenol	<0.89		1.43	1.29		mg/Kg	☼	91	47 - 114
Nitrobenzene	<0.18		1.43	1.24		mg/Kg	☼	87	35 - 113
Bis(2-chloroethoxy)methane	<0.89		1.43	1.37		mg/Kg	☼	96	42 - 110
1,2,4-Trichlorobenzene	<0.89		1.43	1.39		mg/Kg	☼	97	49 - 110
Isophorone	<0.89		1.43	1.36		mg/Kg	☼	96	35 - 110
2,4-Dimethylphenol	<1.8		1.43	1.49	J	mg/Kg	☼	105	49 - 110
Hexachlorobutadiene	<0.89		1.43	1.34		mg/Kg	☼	94	47 - 114
Naphthalene	0.061	J	1.43	1.44		mg/Kg	☼	97	48 - 110
2,4-Dichlorophenol	<1.8		1.43	1.09	J	mg/Kg	☼	76	53 - 113
4-Chloroaniline	<3.6	F1	1.43	<3.6	F1	mg/Kg	☼	0	16 - 118
2,4,6-Trichlorophenol	<1.8		1.43	1.05	J	mg/Kg	☼	74	44 - 118
2,4,5-Trichlorophenol	<1.8		1.43	0.878	J	mg/Kg	☼	62	41 - 120
Hexachlorocyclopentadiene	<3.6	F1	1.43	<3.6	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	0.17	J	1.43	1.50		mg/Kg	☼	94	48 - 110
2-Nitroaniline	<0.89		1.43	1.15		mg/Kg	☼	81	42 - 122
2-Chloronaphthalene	<0.89		1.43	1.33		mg/Kg	☼	94	52 - 114
4-Chloro-3-methylphenol	<1.8		1.43	1.28	J	mg/Kg	☼	90	52 - 111
2,6-Dinitrotoluene	<0.89		1.43	1.05		mg/Kg	☼	74	54 - 117
2-Nitrophenol	<1.8	F1	1.43	0.553	J F1	mg/Kg	☼	39	48 - 113
3-Nitroaniline	<1.8		1.43	1.08	J	mg/Kg	☼	76	36 - 131
Dimethyl phthalate	<0.89		1.43	1.42		mg/Kg	☼	100	56 - 113
2,4-Dinitrophenol	<3.6		2.85	<3.6		mg/Kg	☼	NC	10 - 110
Acenaphthylene	<0.18		1.43	1.25		mg/Kg	☼	87	49 - 110
2,4-Dinitrotoluene	<0.89	F1	1.43	0.798	J	mg/Kg	☼	56	53 - 122
Acenaphthene	0.046	J	1.43	1.18		mg/Kg	☼	80	46 - 110
Dibenzofuran	<0.89		1.43	1.26		mg/Kg	☼	88	51 - 119
4-Nitrophenol	<3.6	F1	2.85	<3.6	F1	mg/Kg	☼	0	10 - 157
Fluorene	0.070	J	1.43	1.20		mg/Kg	☼	79	47 - 121
4-Nitroaniline	<1.8	F1	1.43	0.807	J	mg/Kg	☼	57	28 - 157

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107457-1 MS

Matrix: Solid

Analysis Batch: 323674

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322677

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Bromophenyl phenyl ether	<0.89	F1	1.43	1.89	F1	mg/Kg	☼	133	55 - 113
Hexachlorobenzene	<0.36		1.43	1.44		mg/Kg	☼	101	54 - 114
Diethyl phthalate	<0.89		1.43	1.38		mg/Kg	☼	97	50 - 128
4-Chlorophenyl phenyl ether	<0.89		1.43	1.23		mg/Kg	☼	86	53 - 117
Pentachlorophenol	<3.6	F1	2.85	<3.6	F1	mg/Kg	☼	0	10 - 124
N-Nitrosodiphenylamine	<0.89	F1	1.43	2.28	F1	mg/Kg	☼	160	52 - 111
4,6-Dinitro-2-methylphenol	<3.6	F1	2.85	<3.6	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.65		1.43	2.19		mg/Kg	☼	108	48 - 121
Anthracene	0.094	J	1.43	1.42		mg/Kg	☼	93	48 - 118
Carbazole	<0.89		1.43	1.33		mg/Kg	☼	93	26 - 188
Di-n-butyl phthalate	<0.89		1.43	1.59		mg/Kg	☼	111	50 - 128
Fluoranthene	0.62		1.43	1.40		mg/Kg	☼	55	48 - 128
Pyrene	1.4	F1	1.43	4.33	F1	mg/Kg	☼	205	46 - 114
Butyl benzyl phthalate	<0.89	F1	1.43	2.67	F1	mg/Kg	☼	187	49 - 121
Benzo[a]anthracene	0.33		1.43	1.75		mg/Kg	☼	99	49 - 121
Chrysene	0.53		1.43	1.93		mg/Kg	☼	98	45 - 118
3,3'-Dichlorobenzidine	<0.89		1.43	0.862	J	mg/Kg	☼	60	26 - 128
Bis(2-ethylhexyl) phthalate	<0.89	F1	1.43	2.61	F1	mg/Kg	☼	183	47 - 133
Di-n-octyl phthalate	<0.89	F1	1.43	0.483	J F1	mg/Kg	☼	34	46 - 138
Benzo[b]fluoranthene	0.59		1.43	2.00		mg/Kg	☼	100	54 - 122
Benzo[k]fluoranthene	0.22		1.43	1.56		mg/Kg	☼	94	44 - 137
Benzo[a]pyrene	0.36		1.43	1.82		mg/Kg	☼	102	53 - 122
Indeno[1,2,3-cd]pyrene	0.22		1.43	1.72		mg/Kg	☼	106	49 - 132
Dibenz(a,h)anthracene	0.10	J	1.43	1.46		mg/Kg	☼	95	48 - 134
Benzo[g,h,i]perylene	0.29		1.43	1.78		mg/Kg	☼	105	52 - 125
3 & 4 Methylphenol	<0.89		1.43	1.34		mg/Kg	☼	94	37 - 122

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	91		25 - 110
Phenol-d5	97		31 - 110
Nitrobenzene-d5	92		25 - 115
2-Fluorobiphenyl	103		25 - 119
2,4,6-Tribromophenol	44		35 - 137
Terphenyl-d14	195	X	36 - 134

Lab Sample ID: 500-107457-1 MSD

Matrix: Solid

Analysis Batch: 323674

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322677

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.89		1.39	1.36		mg/Kg	☼	97	41 - 110	10	30
Bis(2-chloroethyl)ether	<0.89		1.39	1.24		mg/Kg	☼	89	32 - 110	23	30
1,3-Dichlorobenzene	<0.89		1.39	1.13		mg/Kg	☼	81	44 - 110	13	30
1,4-Dichlorobenzene	<0.89		1.39	1.20		mg/Kg	☼	86	45 - 110	9	30
1,2-Dichlorobenzene	<0.89		1.39	1.19		mg/Kg	☼	86	48 - 110	9	30
2-Methylphenol	<0.89		1.39	1.33		mg/Kg	☼	96	44 - 110	4	30
2,2'-oxybis[1-chloropropane]	<0.89		1.39	1.07		mg/Kg	☼	77	30 - 115	7	30
N-Nitrosodi-n-propylamine	<0.36		1.39	1.26		mg/Kg	☼	90	24 - 123	8	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107457-1 MSD

Matrix: Solid

Analysis Batch: 323674

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322677

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Hexachloroethane	<0.89	F1	1.39	<0.87	F1	mg/Kg	☼	0	44 - 110	NC	30
2-Chlorophenol	<0.89		1.39	1.19		mg/Kg	☼	85	47 - 114	8	30
Nitrobenzene	<0.18		1.39	1.16		mg/Kg	☼	83	35 - 113	7	30
Bis(2-chloroethoxy)methane	<0.89		1.39	1.28		mg/Kg	☼	92	42 - 110	6	30
1,2,4-Trichlorobenzene	<0.89		1.39	1.29		mg/Kg	☼	92	49 - 110	7	30
Isophorone	<0.89		1.39	1.26		mg/Kg	☼	90	35 - 110	8	30
2,4-Dimethylphenol	<1.8		1.39	1.39	J	mg/Kg	☼	100	49 - 110	7	30
Hexachlorobutadiene	<0.89		1.39	1.23		mg/Kg	☼	88	47 - 114	9	30
Naphthalene	0.061	J	1.39	1.30		mg/Kg	☼	89	48 - 110	10	30
2,4-Dichlorophenol	<1.8		1.39	0.930	J	mg/Kg	☼	67	53 - 113	16	30
4-Chloroaniline	<3.6	F1	1.39	<3.5	F1	mg/Kg	☼	0	16 - 118	NC	30
2,4,6-Trichlorophenol	<1.8		1.39	0.912	J	mg/Kg	☼	65	44 - 118	14	30
2,4,5-Trichlorophenol	<1.8		1.39	0.725	J	mg/Kg	☼	52	41 - 120	19	30
Hexachlorocyclopentadiene	<3.6	F1	1.39	<3.5	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	0.17	J	1.39	1.40		mg/Kg	☼	89	48 - 110	7	30
2-Nitroaniline	<0.89		1.39	1.08		mg/Kg	☼	78	42 - 122	6	30
2-Chloronaphthalene	<0.89		1.39	1.24		mg/Kg	☼	89	52 - 114	7	30
4-Chloro-3-methylphenol	<1.8		1.39	1.18	J	mg/Kg	☼	85	52 - 111	8	30
2,6-Dinitrotoluene	<0.89		1.39	0.979		mg/Kg	☼	70	54 - 117	7	30
2-Nitrophenol	<1.8	F1	1.39	0.484	J F1	mg/Kg	☼	35	48 - 113	13	30
3-Nitroaniline	<1.8		1.39	0.924	J	mg/Kg	☼	66	36 - 131	15	30
Dimethyl phthalate	<0.89		1.39	1.33		mg/Kg	☼	96	56 - 113	6	30
2,4-Dinitrophenol	<3.6		2.79	<3.5		mg/Kg	☼	NC	10 - 110	NC	30
Acenaphthylene	<0.18		1.39	1.15		mg/Kg	☼	82	49 - 110	8	30
2,4-Dinitrotoluene	<0.89	F1	1.39	0.705	J F1	mg/Kg	☼	51	53 - 122	12	30
Acenaphthene	0.046	J	1.39	1.12		mg/Kg	☼	77	46 - 110	5	30
Dibenzofuran	<0.89		1.39	1.20		mg/Kg	☼	86	51 - 119	5	30
4-Nitrophenol	<3.6	F1	2.79	<3.5	F1	mg/Kg	☼	0	10 - 157	NC	30
Fluorene	0.070	J	1.39	1.08		mg/Kg	☼	73	47 - 121	10	30
4-Nitroaniline	<1.8	F1	1.39	<1.7	F1	mg/Kg	☼	0	28 - 157	NC	30
4-Bromophenyl phenyl ether	<0.89	F1	1.39	1.83	F1	mg/Kg	☼	131	55 - 113	3	30
Hexachlorobenzene	<0.36		1.39	1.45		mg/Kg	☼	104	54 - 114	1	30
Diethyl phthalate	<0.89		1.39	1.25		mg/Kg	☼	90	50 - 128	10	30
4-Chlorophenyl phenyl ether	<0.89		1.39	1.14		mg/Kg	☼	82	53 - 117	7	30
Pentachlorophenol	<3.6	F1	2.79	<3.5		mg/Kg	☼	NC	10 - 124	NC	30
N-Nitrosodiphenylamine	<0.89	F1	1.39	2.22	F1	mg/Kg	☼	159	52 - 111	2	30
4,6-Dinitro-2-methylphenol	<3.6	F1	2.79	<3.5	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.65		1.39	2.27		mg/Kg	☼	116	48 - 121	3	30
Anthracene	0.094	J	1.39	1.39		mg/Kg	☼	93	48 - 118	2	30
Carbazole	<0.89		1.39	1.25		mg/Kg	☼	90	26 - 188	6	30
Di-n-butyl phthalate	<0.89		1.39	1.49		mg/Kg	☼	107	50 - 128	6	30
Fluoranthene	0.62		1.39	1.45		mg/Kg	☼	60	48 - 128	3	30
Pyrene	1.4	F1	1.39	4.29	F1	mg/Kg	☼	207	46 - 114	1	30
Butyl benzyl phthalate	<0.89	F1	1.39	2.52	F1	mg/Kg	☼	181	49 - 121	6	30
Benzo[a]anthracene	0.33		1.39	1.76		mg/Kg	☼	103	49 - 121	1	30
Chrysene	0.53		1.39	2.04		mg/Kg	☼	109	45 - 118	6	30
3,3'-Dichlorobenzidine	<0.89		1.39	0.948		mg/Kg	☼	68	26 - 128	10	30
Bis(2-ethylhexyl) phthalate	<0.89	F1	1.39	2.41	F1	mg/Kg	☼	173	47 - 133	8	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107457-1 MSD

Matrix: Solid

Analysis Batch: 323674

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322677

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Di-n-octyl phthalate	<0.89	F1	1.39	0.430	J F1	mg/Kg	☼	31	46 - 138	12	30	
Benzo[b]fluoranthene	0.59		1.39	2.04		mg/Kg	☼	104	54 - 122	2	30	
Benzo[k]fluoranthene	0.22		1.39	1.71		mg/Kg	☼	107	44 - 137	9	30	
Benzo[a]pyrene	0.36		1.39	1.82		mg/Kg	☼	104	53 - 122	0	30	
Indeno[1,2,3-cd]pyrene	0.22		1.39	1.56		mg/Kg	☼	97	49 - 132	10	30	
Dibenz(a,h)anthracene	0.10	J	1.39	1.21		mg/Kg	☼	80	48 - 134	18	30	
Benzo[g,h,i]perylene	0.29		1.39	1.66		mg/Kg	☼	99	52 - 125	7	30	
3 & 4 Methylphenol	<0.89		1.39	1.26		mg/Kg	☼	90	37 - 122	6	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	90		25 - 110
Phenol-d5	95		31 - 110
Nitrobenzene-d5	86		25 - 115
2-Fluorobiphenyl	100		25 - 119
2,4,6-Tribromophenol	40		35 - 137
Terphenyl-d14	193	X	36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-322745/3-A

Matrix: Solid

Analysis Batch: 323024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322745

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Barium	0.500	0.491	J	mg/L		98	80 - 120	
Beryllium	0.0500	0.0491		mg/L		98	80 - 120	
Boron	1.00	0.936		mg/L		94	80 - 120	
Cadmium	0.0500	0.0488		mg/L		98	80 - 120	
Chromium	0.200	0.195		mg/L		98	80 - 120	
Cobalt	0.500	0.494		mg/L		99	80 - 120	
Iron	1.00	1.03		mg/L		103	80 - 120	
Lead	0.100	0.0978		mg/L		98	80 - 120	
Manganese	0.500	0.501		mg/L		100	80 - 120	
Nickel	0.500	0.490		mg/L		98	80 - 120	
Selenium	0.100	0.0921		mg/L		92	80 - 120	
Silver	0.0500	0.0488		mg/L		98	80 - 120	
Zinc	0.500	0.498	J	mg/L		100	80 - 120	

Lab Sample ID: LCS 500-322747/3-A

Matrix: Solid

Analysis Batch: 323157

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322747

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Lead	0.100	0.0987		mg/L		99	80 - 120	
Manganese	0.500	0.508		mg/L		102	80 - 120	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-322859/1-A
Matrix: Solid
Analysis Batch: 323151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.42	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Barium	<1.0		1.0	0.18	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Boron	<5.0		5.0	0.70	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Calcium	21.8		20	6.4	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Chromium	1.05		1.0	0.17	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Copper	<1.0		1.0	0.22	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Iron	15.8	J	20	7.7	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Lead	<0.50		0.50	0.25	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Magnesium	10.5		10	4.1	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Potassium	<50		50	8.2	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Silver	<0.50		0.50	0.12	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Sodium	13.5	J	100	13	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/15/16 09:32	02/16/16 23:31	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/15/16 09:32	02/16/16 23:31	1

Lab Sample ID: LCS 500-322859/2-A
Matrix: Solid
Analysis Batch: 323151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.9		mg/Kg		92	80 - 120
Arsenic	10.0	8.73		mg/Kg		87	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Beryllium	5.00	4.63		mg/Kg		93	80 - 120
Boron	100	85.6		mg/Kg		86	80 - 120
Cadmium	5.00	4.58		mg/Kg		92	80 - 120
Calcium	1000	966		mg/Kg		97	80 - 120
Chromium	20.0	19.9		mg/Kg		100	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Iron	100	107		mg/Kg		107	80 - 120
Lead	10.0	9.41		mg/Kg		94	80 - 120
Magnesium	1000	951		mg/Kg		95	80 - 120
Manganese	50.0	47.7		mg/Kg		95	80 - 120
Nickel	50.0	48.3		mg/Kg		97	80 - 120
Potassium	1000	923		mg/Kg		92	80 - 120
Selenium	10.0	8.83		mg/Kg		88	80 - 120
Silver	5.00	4.60		mg/Kg		92	80 - 120
Sodium	1000	939		mg/Kg		94	80 - 120
Thallium	10.0	9.20		mg/Kg		92	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-322859/2-A
Matrix: Solid
Analysis Batch: 323151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322859
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	47.4		mg/Kg		95	80 - 120

Lab Sample ID: 500-107457-1 MS
Matrix: Solid
Analysis Batch: 323151

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 322859
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.19	J F1	24.1	9.11	F1	mg/Kg	☼	38	75 - 125
Arsenic	1.8		4.82	7.08		mg/Kg	☼	110	75 - 125
Barium	11		96.3	108		mg/Kg	☼	101	75 - 125
Beryllium	0.15	J	2.41	2.38		mg/Kg	☼	92	75 - 125
Boron	11		48.2	52.1		mg/Kg	☼	85	75 - 125
Cadmium	0.035	J	2.41	2.44		mg/Kg	☼	100	75 - 125
Chromium	5.5	B	9.63	16.2		mg/Kg	☼	111	75 - 125
Cobalt	1.4		24.1	26.5		mg/Kg	☼	104	75 - 125
Copper	5.1		12.0	20.2		mg/Kg	☼	125	75 - 125
Iron	3600	B	48.2	6200	4	mg/Kg	☼	5475	75 - 125
Lead	3.9	F1	4.82	12.0	F1	mg/Kg	☼	167	75 - 125
Manganese	160		24.1	279	4	mg/Kg	☼	504	75 - 125
Nickel	6.1		24.1	31.7		mg/Kg	☼	106	75 - 125
Potassium	520	F1	482	1650	F1	mg/Kg	☼	235	75 - 125
Selenium	<0.47		4.82	3.84		mg/Kg	☼	80	75 - 125
Silver	<0.23		2.41	2.48		mg/Kg	☼	103	75 - 125
Sodium	580	F1 B	482	1360	F1	mg/Kg	☼	164	75 - 125
Thallium	<0.47		4.82	4.18		mg/Kg	☼	87	75 - 125
Vanadium	12		24.1	33.2		mg/Kg	☼	89	75 - 125
Zinc	15	F1	24.1	51.6	F1	mg/Kg	☼	153	75 - 125

Lab Sample ID: 500-107457-1 MS
Matrix: Solid
Analysis Batch: 323340

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 322859
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	170000	B	482	146000	4	mg/Kg	☼	-5549	75 - 125
Magnesium	99000	B	482	74400	4	mg/Kg	☼	-5139	75 - 125

Lab Sample ID: 500-107457-1 MSD
Matrix: Solid
Analysis Batch: 323151

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 322859
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.19	J F1	23.8	9.65	F1	mg/Kg	☼	41	75 - 125	6	20
Arsenic	1.8		4.76	7.05		mg/Kg	☼	111	75 - 125	0	20
Barium	11		95.2	99.2		mg/Kg	☼	93	75 - 125	8	20
Beryllium	0.15	J	2.38	2.26		mg/Kg	☼	89	75 - 125	5	20
Boron	11		47.6	47.3		mg/Kg	☼	76	75 - 125	10	20
Cadmium	0.035	J	2.38	2.32		mg/Kg	☼	96	75 - 125	5	20
Chromium	5.5	B	9.52	17.1		mg/Kg	☼	122	75 - 125	5	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107457-1 MSD

Matrix: Solid

Analysis Batch: 323151

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Cobalt	1.4		23.8	29.6		mg/Kg	☼	119	75 - 125	11	20
Copper	5.1		11.9	18.7		mg/Kg	☼	114	75 - 125	8	20
Iron	3600	B	47.6	5120	4	mg/Kg	☼	3266	75 - 125	19	20
Lead	3.9	F1	4.76	10.7	F1	mg/Kg	☼	142	75 - 125	11	20
Manganese	160		23.8	289	4	mg/Kg	☼	550	75 - 125	3	20
Nickel	6.1		23.8	33.6		mg/Kg	☼	115	75 - 125	6	20
Potassium	520	F1	476	1420	F1	mg/Kg	☼	189	75 - 125	15	20
Selenium	<0.47		4.76	4.25		mg/Kg	☼	89	75 - 125	10	20
Silver	<0.23		2.38	2.37		mg/Kg	☼	99	75 - 125	5	20
Sodium	580	F1 B	476	1280	F1	mg/Kg	☼	148	75 - 125	6	20
Thallium	<0.47		4.76	4.01		mg/Kg	☼	84	75 - 125	4	20
Vanadium	12		23.8	34.6		mg/Kg	☼	96	75 - 125	4	20
Zinc	15	F1	23.8	45.5	F1	mg/Kg	☼	130	75 - 125	13	20

Lab Sample ID: 500-107457-1 MSD

Matrix: Solid

Analysis Batch: 323340

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Calcium	170000	B	476	152000	4	mg/Kg	☼	-4374	75 - 125	4	20
Magnesium	99000	B	476	80400	4	mg/Kg	☼	-3924	75 - 125	8	20

Lab Sample ID: 500-107457-1 DU

Matrix: Solid

Analysis Batch: 323151

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322859

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	1.8		1.59		mg/Kg	☼	11	20
Barium	11		22.9	F3	mg/Kg	☼	73	20
Beryllium	0.15	J	0.276	F5	mg/Kg	☼	59	20
Boron	11		11.3		mg/Kg	☼	0.7	20
Cadmium	0.035	J	0.0825	J F5	mg/Kg	☼	80	20
Chromium	5.5	B	7.10	F3	mg/Kg	☼	25	20
Cobalt	1.4		2.55	F3	mg/Kg	☼	57	20
Copper	5.1		8.01	F3	mg/Kg	☼	44	20
Iron	3600	B	5020	F3	mg/Kg	☼	34	20
Lead	3.9	F1	8.27	F3	mg/Kg	☼	71	20
Manganese	160		230	F3	mg/Kg	☼	37	20
Nickel	6.1		9.84	F3	mg/Kg	☼	47	20
Potassium	520	F1	759	F3	mg/Kg	☼	38	20
Selenium	<0.47		<0.46		mg/Kg	☼	NC	20
Silver	<0.23		<0.23		mg/Kg	☼	NC	20
Sodium	580	F1 B	946	F3	mg/Kg	☼	49	20
Thallium	<0.47		<0.46		mg/Kg	☼	NC	20
Vanadium	12		14.0		mg/Kg	☼	17	20
Zinc	15	F1	30.7	F3	mg/Kg	☼	71	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107457-1 DU

Matrix: Solid

Analysis Batch: 323340

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: Total/NA

Prep Batch: 322859

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Calcium	170000	B	156000		mg/Kg	☼	10	20	
Magnesium	99000	B	83900		mg/Kg	☼	17	20	

Lab Sample ID: LB 500-322655/1-B

Matrix: Solid

Analysis Batch: 323024

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 322745

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 15:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/16 08:30	02/15/16 15:39	1
Boron	<0.50		0.50	0.050	mg/L		02/14/16 08:30	02/15/16 15:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/16 08:30	02/15/16 15:39	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 15:39	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 15:39	1
Iron	<0.40		0.40	0.20	mg/L		02/14/16 08:30	02/15/16 15:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/15/16 15:39	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 15:39	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 15:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/16 08:30	02/15/16 15:39	1
Silver	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/15/16 15:39	1
Zinc	0.117	J	0.50	0.020	mg/L		02/14/16 08:30	02/15/16 15:39	1

Lab Sample ID: 500-107457-1 MS

Matrix: Solid

Analysis Batch: 323024

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: TCLP

Prep Batch: 322745

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Barium	0.18	J	0.500	0.717		mg/L		107	50 - 150
Beryllium	<0.0040		0.0500	0.0510		mg/L		102	50 - 150
Boron	0.082	J	1.00	1.07		mg/L		99	50 - 150
Cadmium	<0.0050		0.0500	0.0493		mg/L		99	50 - 150
Chromium	<0.025		0.200	0.195		mg/L		98	50 - 150
Cobalt	<0.025		0.500	0.483		mg/L		97	50 - 150
Iron	<0.40		1.00	0.959		mg/L		96	50 - 150
Lead	<0.0075		0.100	0.0985		mg/L		98	50 - 150
Manganese	0.36		0.500	0.948		mg/L		118	50 - 150
Nickel	0.011	J	0.500	0.488		mg/L		95	50 - 150
Selenium	<0.050		0.100	0.103		mg/L		103	50 - 150
Silver	<0.025		0.0500	0.0532		mg/L		106	50 - 150
Zinc	<0.50		0.500	0.511		mg/L		102	50 - 150

Lab Sample ID: 500-107457-1 DU

Matrix: Solid

Analysis Batch: 323024

Client Sample ID: 2746-01B-B02 (0-3)

Prep Type: TCLP

Prep Batch: 322745

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Barium	0.18	J	0.191	J	mg/L		5	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.082	J	0.0857	J	mg/L		4	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107457-1 DU
Matrix: Solid
Analysis Batch: 323024

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: TCLP
Prep Batch: 322745

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.36		0.373		mg/L		4	20
Nickel	0.011	J	0.0112	J	mg/L		4	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	<0.50		<0.50		mg/L		NC	20

Lab Sample ID: LB 500-322661/1-B
Matrix: Solid
Analysis Batch: 323157

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 322747

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/16 08:30	02/17/16 05:26	1
Manganese	<0.025		0.025	0.010	mg/L		02/14/16 08:30	02/17/16 05:26	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-322745/3-A
Matrix: Solid
Analysis Batch: 323182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.480	^	mg/L		96	80 - 120
Thallium	0.100	0.0973		mg/L		97	80 - 120

Lab Sample ID: LB 500-322655/1-B
Matrix: Solid
Analysis Batch: 323182

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 322745

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060	^	0.0060	0.0060	mg/L		02/14/16 08:30	02/16/16 12:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/14/16 08:30	02/16/16 12:23	1

Lab Sample ID: 500-107457-1 MS
Matrix: Solid
Analysis Batch: 323182

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: TCLP
Prep Batch: 322745

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060	^	0.500	0.505	^	mg/L		101	50 - 150
Thallium	<0.0020		0.100	0.108		mg/L		108	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107457-1 DU
 Matrix: Solid
 Analysis Batch: 323182

Client Sample ID: 2746-01B-B02 (0-3)
 Prep Type: TCLP
 Prep Batch: 322745

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060	^	<0.0060	^	mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-322903/12-A
 Matrix: Solid
 Analysis Batch: 323031

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 322903

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 10:39	1

Lab Sample ID: LCS 500-322903/13-A
 Matrix: Solid
 Analysis Batch: 323031

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 322903
 %Rec.

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00215		mg/L		108	80 - 120

Lab Sample ID: LB 500-322655/1-C
 Matrix: Solid
 Analysis Batch: 323031

Client Sample ID: Method Blank
 Prep Type: TCLP
 Prep Batch: 322903

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/15/16 13:50	02/16/16 10:42	1

Lab Sample ID: 500-107457-2 MS
 Matrix: Solid
 Analysis Batch: 323031

Client Sample ID: 2746-01B-B01 (0-8)
 Prep Type: TCLP
 Prep Batch: 322903
 %Rec.

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000844		mg/L		84	50 - 150

Lab Sample ID: 500-107457-2 DU
 Matrix: Solid
 Analysis Batch: 323031

Client Sample ID: 2746-01B-B01 (0-8)
 Prep Type: TCLP
 Prep Batch: 322903

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-323038/12-A
 Matrix: Solid
 Analysis Batch: 323301

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 323038

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.017		0.017	0.0088	mg/Kg		02/16/16 16:00	02/17/16 18:11	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-323038/13-A
Matrix: Solid
Analysis Batch: 323301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.146		mg/Kg		88	80 - 120

Lab Sample ID: 500-107457-1 MS
Matrix: Solid
Analysis Batch: 323301

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 323038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.016		0.0827	0.0905		mg/Kg	☼	109	75 - 125

Lab Sample ID: 500-107457-1 MSD
Matrix: Solid
Analysis Batch: 323301

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 323038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.016		0.0787	0.0757		mg/Kg	☼	96	75 - 125	18	20

Lab Sample ID: 500-107457-1 DU
Matrix: Solid
Analysis Batch: 323301

Client Sample ID: 2746-01B-B02 (0-3)
Prep Type: Total/NA
Prep Batch: 323038

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.016		0.0157	J	mg/Kg	☼	NC	20

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B02 (0-3)

Date Collected: 02/10/16 10:22

Date Received: 02/11/16 07:40

Lab Sample ID: 500-107457-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323157	02/17/16 06:49	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 16:36	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 12:35	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 10:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:01		
					(End)	02/15/16 16:03		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01B-B02 (0-3)

Date Collected: 02/10/16 10:22

Date Received: 02/11/16 07:40

Lab Sample ID: 500-107457-1

Matrix: Solid

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/16/16 23:12	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		5	323785	02/21/16 18:18	GES	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 22:11	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/16/16 23:39	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:15	MJD	TAL CHI

Client Sample ID: 2746-01B-B01 (0-8)

Date Collected: 02/10/16 10:39

Date Received: 02/11/16 07:40

Lab Sample ID: 500-107457-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323157	02/17/16 06:56	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:03	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 12:52	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 10:53	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 16:03 (End) 02/15/16 16:05	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01B-B01 (0-8)

Lab Sample ID: 500-107457-2

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/16/16 23:38	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323785	02/21/16 18:43	GES	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 22:45	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:12	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:27	MJD	TAL CHI

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323157	02/17/16 07:03	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:09	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 12:56	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 10:59	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:05		
					(End)	02/15/16 16:07		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01B-B01 (0-8)D

Lab Sample ID: 500-107457-3

Date Collected: 02/10/16 10:39

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 00:03	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 03:08	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 22:52	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:17	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:29	MJD	TAL CHI

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Date Collected: 02/10/16 09:25

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323157	02/17/16 07:10	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:16	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:00	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:07		
					(End)	02/15/16 16:09		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (0-6)

Lab Sample ID: 500-107457-4

Date Collected: 02/10/16 09:25

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 00:29	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 03:34	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 22:58	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:23	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:31	MJD	TAL CHI

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 09:17	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:23	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:13	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:09		
					(End)	02/15/16 16:11		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 00:54	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323704	02/20/16 18:36	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 23:21	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B42 (6-11)

Lab Sample ID: 500-107457-5

Date Collected: 02/10/16 09:27

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:28	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:32	MJD	TAL CHI

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Date Collected: 02/10/16 09:55

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 09:23	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:45	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:17	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:05	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:11		
					(End)	02/15/16 16:13		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B41 (0-5)

Lab Sample ID: 500-107457-6

Date Collected: 02/10/16 09:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 01:20	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323785	02/21/16 19:57	GES	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 23:28	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:33	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:34	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Date Collected: 02/10/16 09:58

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 09:30	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:52	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:21	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:07	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:13		
					(End)	02/15/16 16:15		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B41 (5-10)

Lab Sample ID: 500-107457-7

Date Collected: 02/10/16 09:58

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 01:46	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323704	02/20/16 19:05	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 23:35	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:38	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:36	MJD	TAL CHI

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 09:41	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 17:59	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:25	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:08	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 16:15 (End) 02/15/16 16:17	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B40 (0-8)

Lab Sample ID: 500-107457-8

Date Collected: 02/10/16 11:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 02:11	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323704	02/20/16 19:33	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 23:41	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:43	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:38	MJD	TAL CHI

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 09:48	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:06	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:29	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:10	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 16:17 (End) 02/15/16 16:19	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B39 (0-8)

Lab Sample ID: 500-107457-9

Date Collected: 02/10/16 12:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 02:36	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323704	02/20/16 20:02	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 23:48	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 00:48	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:40	MJD	TAL CHI

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Date Collected: 02/10/16 12:05

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 09:54	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:12	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:34	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:16	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 16:19 (End) 02/15/16 16:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B38 (0-8)

Lab Sample ID: 500-107457-10

Date Collected: 02/10/16 12:05

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 03:02	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323704	02/20/16 20:31	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/17/16 23:55	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 01:00	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:42	MJD	TAL CHI

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 10:01	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:19	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:38	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:19	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:21		
					(End)	02/15/16 16:23		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 03:27	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 00:33	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/18/16 00:02	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B21 (0-7)

Lab Sample ID: 500-107457-11

Date Collected: 02/10/16 13:10

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 01:06	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:48	MJD	TAL CHI

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Date Collected: 02/10/16 13:15

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 10:08	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:26	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:42	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:23		
					(End)	02/15/16 16:25		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B21 (7-14)

Lab Sample ID: 500-107457-12

Date Collected: 02/10/16 13:15

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 03:52	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 00:59	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/18/16 00:08	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 01:11	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:50	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Date Collected: 02/10/16 13:50

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 10:15	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:33	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:46	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 16:25		
					(End)	02/15/16 16:27		
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B20 (0-7)

Lab Sample ID: 500-107457-13

Date Collected: 02/10/16 13:50

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 04:18	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 01:25	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/18/16 00:15	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 01:16	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:52	MJD	TAL CHI

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 10:22	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:39	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 13:50	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 16:27 (End) 02/15/16 16:29	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B20 (7-14)

Lab Sample ID: 500-107457-14

Date Collected: 02/10/16 13:55

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 04:43	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 01:51	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/18/16 00:22	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 01:21	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:54	MJD	TAL CHI

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322661	02/12/16 14:45	RA	TAL CHI
SPLP East	Prep	3010A			322747	02/14/16 08:30	PJH	TAL CHI
SPLP East	Analysis	6010B		1	323044	02/16/16 10:44	KML	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	323024	02/15/16 18:46	PJ1	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	3010A			322745	02/14/16 08:30	PJH	TAL CHI
TCLP	Analysis	6020A		1	323182	02/16/16 14:06	PFK	TAL CHI
TCLP	Leach	1311			322655	02/12/16 14:45	RA	TAL CHI
TCLP	Prep	7470A			322903	02/15/16 13:50	MJD	TAL CHI
TCLP	Analysis	7470A		1	323031	02/16/16 11:26	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322930	02/15/16 16:29 (Start) 02/15/16 16:31 (End)	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322480	02/11/16 13:29	LWN	TAL CHI

Client Sample ID: 2746-01-B20 (14-20)

Lab Sample ID: 500-107457-15

Date Collected: 02/10/16 14:00

Matrix: Solid

Date Received: 02/11/16 07:40

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322948	02/11/16 08:10	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 05:09	BDW	TAL CHI
Total/NA	Prep	3541			322677	02/12/16 16:22	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323674	02/20/16 02:17	AJD	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323340	02/18/16 00:44	PJ1	TAL CHI
Total/NA	Prep	3050B			322859	02/15/16 09:32	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323151	02/17/16 01:25	PJ1	TAL CHI
Total/NA	Prep	7471B			323038	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323301	02/17/16 18:56	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107457-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.534.5200



500-107457 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-107457
Chain of Custody Number: _____
Page 1 of 1
Temperature °C of Cooler: 3, 1, 2, 7

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
E+E		1009341.0005.01								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		# of Containers		Matrix		Comments		
I-90		50011818		Date	Time							
Project Location/State		Lab PM										
Cook County, IL		D. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total TAL Metals	TCLP/SPLP Metals	pH/Percent Solids	Comments
		2746-01B-B02(0-5)	2/10/16									dit
1		2746-01B-B02(0-3)	2/10/16	1022	2	S	X	X	X	X	X	
2		2746-01B-B01(0-8)	2/10	1039	2	S	X	X	X	X	X	
3		2746-01B-B01(0-8)D	2/10	1039	2	S	X	X	X	X	X	

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 Requested Due Date: _____

Sample Disposal Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>J. Bruch</u> Company: <u>E+E</u> Date: <u>2/10/16</u> Time: <u>1500</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/10/16</u> Time: <u>1500</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>2/10/16</u> Time: <u>1755</u>	Received By: <u>Chemical</u> Company: <u>TA-CHT</u> Date: <u>2/11/16</u> Time: <u>0740</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key: WW - Wastewater, W - Water, S - Soil, SL - Sludge, MS - Miscellaneous, OL - Oil, A - Air, SE - Sediment, SO - Soil, L - Leachate, WI - Wipe, DW - Drinking Water, O - Other

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-107457

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Lab Project #		Parameter		Matrix		Comments		
Project Location/State		Lab PM		Parameter		Matrix				
E+E		1009341.0005.01								VOC SVOC Total TALS Metals TCLP/SPLP Metals pH/Percent Solids
I-90		30011818								
Cook County, IL		D. Wright								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
4		2746-01-B42(6-0)	2/10	0925	2 S		X	X	X	
5		2746-01-B42(6-11)	2/10	0927	2 S		X	X	X	
6		2746-01-B41(0-5)	2/10	0955	2 S		X	X	X	
7		2746-01-B41(5-10)	2/10	0953	2 S		X	X	X	
8		2746-01-B40(0-8)	2/10	1115	2 S		X	X	X	
9		2746-01-B39(0-8)	2/10	1200	2 S		X	X	X	
10		2746-01-B38(0-8)	2/10	1205	2 S		X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>D. Wright</i>	Company E+E	Date 2/10/16	Time 1500	Received By <i>P. Neal</i>	Company TA	Date 2/10/16	Time 1500
Relinquished By <i>P. Neal</i>	Company TA	Date 2/11/16	Time 1755	Received By <i>Sherrill Scott</i>	Company TA-CERT	Date 2/11/16	Time 0740
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: *TA*

Shipped: _____

Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107457

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
E+E		1009341.0005.01										
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments		
I-90		50011813										
Project Location/State		Lab PM		Date		Time		pH/Percent Solids		Comments		
Cook County, IL		Dick Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total/TAH Metals	TCLP/SPLP Metals	pH/Percent Solids	Comments
11		2746-01-B21(0-7)	2/10/16	1310	2	S	X	X	X	X	X	
12		2746-01-B21(7-14)	2/10/16	1315	2	S	X	X	X	X	X	
13		2746-01-B20(0-7)	2/10	1350	2	S	X	X	X	X	X	
14		2746-01-B20(7-14)	2/10	1355	2	S	X	X	X	X	X	
15		2746-01-B20(14-20)	2/10	1400	2	S	X	X	X	X	X	

- Preservative Key
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days)

1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other ___

Sample Disposal

Return to Client

Disposal by Lab

Archive for ___ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>J. Hughes</i>	Company E+E	Date 2/10/16	Time 1500	Received By <i>A. Neal</i>	Company TA	Date 2/10/16	Time 1500
Relinquished By <i>A. Neal</i>	Company TA	Date 2/10/16	Time 1355	Received By <i>A. Neal</i>	Company TA-CRIT	Date 2/11/16	Time 0740
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA

Shipped: _____

Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - W/pe
- DW - Drinking Water
- O - Other

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107457-1

Login Number: 107457

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107508-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/23/2016 3:17:13 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Job ID: 500-107508-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107508-1

Comments

No additional comments.

Receipt

The samples were received on 2/12/2016 7:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.0° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 500-323072 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch 500-323152 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for batch 323064 recovered outside control limits for the following analyte: 2-Butanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01-B16 (8-16) (500-107508-9), 2746-01-B16 (24-30) (500-107508-11), 2746-01-B15 (8-17) (500-107508-13), 2746-01-B14 (8-16) (500-107508-15), 2746-01-B14 (16-24) (500-107508-16), (500-107508-E-1-B MS) and (500-107508-E-1-C MSD). The laboratory's SOP allows one acid and/or one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020A: The continuing calibration verifications (CCV) associated with batch 500-323369, at line 12, 24, 36, 49 and 61 recovered above the upper control limit for Thallium. The CCV at line 12 also recovered above the upper control limit for Sb. The low level CCV were all within control limits for this batch. The samples associated with these CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.086		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.018	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14	F1	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.077		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.11		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.037	0.0081	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.055		0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.086		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.051	F1	0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.012	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.043	F1	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.3	F1 B	0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	30		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.41		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3	F1	2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.037	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	45000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	12	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.5		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	15	F1	0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000	F2 B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15	F1 F2	0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	240	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	850	F1	29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.42	J F1 F2	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	380		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	58		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.056	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.74		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.016	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.051		0.040	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.025	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8	B	0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (8-16) (Continued)

Lab Sample ID: 500-107508-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.59		0.24	0.052	mg/Kg	1	☼	6010B	Total/NA
Boron	11		3.0	0.42	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.30	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	29000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	380	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2400		30	4.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	260		59	7.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.30	0.087	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.054	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.021	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.052		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.019	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.03		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.043		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.12		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.090		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.011	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.033	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.030	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.6	B	0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.65		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	59000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	320	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.29	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (16-24) (Continued)

Lab Sample ID: 500-107508-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	180		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.72	F1	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.1		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.43		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.021		0.017	0.0034	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.047		0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.15		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.017	J	0.037	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.017	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0098	J	0.037	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.016	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0088	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.9	B	0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	26		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	100	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	13	B	0.50	0.086	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	10	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	350	B	0.50	0.099	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2100		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.47	J	0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		50	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.0	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30) (Continued)

Lab Sample ID: 500-107508-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.061		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.039	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.019		0.017	0.0090	mg/Kg	1	*	7471B	Total/NA
pH	8.36		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.047		0.037	0.0057	mg/Kg	1	*	8270D	Total/NA
2-Methylnaphthalene	0.16		0.037	0.0068	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.015	J	0.037	0.0052	mg/Kg	1	*	8270D	Total/NA
Phenanthrene	0.14		0.037	0.0052	mg/Kg	1	*	8270D	Total/NA
Fluoranthene	0.013	J	0.037	0.0069	mg/Kg	1	*	8270D	Total/NA
Pyrene	0.045		0.037	0.0074	mg/Kg	1	*	8270D	Total/NA
Benzo[a]anthracene	0.0061	J	0.037	0.0050	mg/Kg	1	*	8270D	Total/NA
Chrysene	0.032	J	0.037	0.010	mg/Kg	1	*	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	1	*	8270D	Total/NA
Arsenic	4.2	B	0.44	0.20	mg/Kg	1	*	6010B	Total/NA
Barium	41		0.44	0.081	mg/Kg	1	*	6010B	Total/NA
Beryllium	0.60		0.18	0.038	mg/Kg	1	*	6010B	Total/NA
Boron	13		2.2	0.31	mg/Kg	1	*	6010B	Total/NA
Calcium	52000	B	89	29	mg/Kg	10	*	6010B	Total/NA
Chromium	16	B	0.44	0.076	mg/Kg	1	*	6010B	Total/NA
Cobalt	12		0.22	0.050	mg/Kg	1	*	6010B	Total/NA
Copper	19		0.44	0.096	mg/Kg	1	*	6010B	Total/NA
Iron	16000	B	8.9	3.4	mg/Kg	1	*	6010B	Total/NA
Lead	12		0.22	0.11	mg/Kg	1	*	6010B	Total/NA
Magnesium	19000		4.4	1.8	mg/Kg	1	*	6010B	Total/NA
Manganese	270	B	0.44	0.088	mg/Kg	1	*	6010B	Total/NA
Nickel	32		0.44	0.12	mg/Kg	1	*	6010B	Total/NA
Potassium	2400		22	3.6	mg/Kg	1	*	6010B	Total/NA
Sodium	180		44	5.8	mg/Kg	1	*	6010B	Total/NA
Vanadium	18		0.22	0.065	mg/Kg	1	*	6010B	Total/NA
Zinc	49		0.89	0.28	mg/Kg	1	*	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.017	0.0087	mg/Kg	1	*	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0068	J	0.035	0.0064	mg/Kg	1	*	8270D	Total/NA
Fluorene	0.0070	J	0.035	0.0050	mg/Kg	1	*	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (0-8) (Continued)

Lab Sample ID: 500-107508-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.059		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.012	J	0.035	0.0059	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.092		0.035	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.10		0.035	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.043		0.035	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.049		0.035	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.071		0.035	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.030	J	0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.043		0.035	0.0068	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.016	J	0.035	0.0092	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.5	B	0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	28		0.45	0.083	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.30		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	4.9		2.3	0.32	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.071	J	0.090	0.026	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B	90	29	mg/Kg	10	☼	6010B	Total/NA
Chromium	9.7	B	0.45	0.078	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.4		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.45	0.098	mg/Kg	1	☼	6010B	Total/NA
Iron	10000	B	9.0	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.23	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	390	B	0.45	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	16		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	820		23	3.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	320		45	6.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.23	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		0.90	0.29	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.25	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.031		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	9.11		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0067	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9	B	0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	11		0.48	0.089	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.25		0.19	0.042	mg/Kg	1	☼	6010B	Total/NA
Boron	6.0		2.4	0.34	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	97	31	mg/Kg	10	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (8-16) (Continued)

Lab Sample ID: 500-107508-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	7.8	B	0.48	0.083	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.5		0.24	0.055	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.48	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	9500	B	9.7	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	8.6		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		4.8	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	350	B	0.48	0.096	mg/Kg	1	☼	6010B	Total/NA
Nickel	26		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	1100		24	4.0	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.32	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		48	6.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.26	J	0.48	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.24	0.071	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		0.97	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.22	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.042		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.64		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.082		0.025	0.010	mg/L	1		6010B	SPLP East
pH	8.39		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.10		0.034	0.0053	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.098		0.034	0.0063	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.019	J	0.034	0.0045	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.36		0.034	0.0062	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.33		0.17	0.040	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.59		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Anthracene	1.2		0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.41		0.17	0.086	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.9		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.7		0.034	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene - DL	5.2		0.14	0.019	mg/Kg	4	☼	8270D	Total/NA
Fluoranthene - DL	5.2		0.14	0.025	mg/Kg	4	☼	8270D	Total/NA
Pyrene - DL	4.7		0.14	0.027	mg/Kg	4	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2.9		0.14	0.030	mg/Kg	4	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1.1		0.14	0.040	mg/Kg	4	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1.6		0.14	0.027	mg/Kg	4	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	0.57		0.14	0.036	mg/Kg	4	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	0.20		0.14	0.027	mg/Kg	4	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	0.48		0.14	0.044	mg/Kg	4	☼	8270D	Total/NA
Arsenic	3.2	B	0.48	0.22	mg/Kg	1	☼	6010B	Total/NA
Barium	21		0.48	0.087	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.19	0.041	mg/Kg	1	☼	6010B	Total/NA
Boron	4.3		2.4	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.069	J	0.095	0.028	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (0-8) (Continued)

Lab Sample ID: 500-107508-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	85000	B	95	31	mg/Kg	10	☼	6010B	Total/NA
Chromium	6.9	B	0.48	0.082	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.24	0.054	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.48	0.10	mg/Kg	1	☼	6010B	Total/NA
Iron	8900	B	9.5	3.7	mg/Kg	1	☼	6010B	Total/NA
Lead	8.2		0.24	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000		4.8	1.9	mg/Kg	1	☼	6010B	Total/NA
Manganese	460	B	0.48	0.094	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.48	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	620		24	3.9	mg/Kg	1	☼	6010B	Total/NA
Sodium	200		48	6.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	11		0.24	0.070	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		0.95	0.30	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.17		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.017	0.0089	mg/Kg	1	☼	7471B	Total/NA
pH	9.02		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0091	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.010	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.093		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0080	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.017	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.032	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.0	B	0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	9.6		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	30000		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	370	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	28		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.57	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (8-16) (Continued)

Lab Sample ID: 500-107508-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	43		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.025		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.058		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.26	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.051		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.29		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.042		0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.10		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0076	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.085		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0088	J	0.037	0.0070	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.034	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.024	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.015	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.6	B	0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.45	0.082	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.48		0.18	0.039	mg/Kg	1	☼	6010B	Total/NA
Boron	10		2.2	0.31	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B	90	29	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.45	0.077	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.22	0.051	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.45	0.097	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	9.0	3.5	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.22	0.11	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		4.5	1.8	mg/Kg	1	☼	6010B	Total/NA
Manganese	300	B	0.45	0.089	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		22	3.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55		0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		45	5.9	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.45	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.22	0.066	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		0.90	0.28	mg/Kg	1	☼	6010B	Total/NA
Barium	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.36		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.09		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.062		0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.20		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.14		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.015	J	0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.048		0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0075	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.033	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7	B	0.42	0.19	mg/Kg	1	☼	6010B	Total/NA
Barium	35		0.42	0.077	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.17	0.036	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Calcium	54000	B	84	27	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.42	0.072	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.21	0.047	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.42	0.091	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	8.4	3.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.21	0.10	mg/Kg	1	☼	6010B	Total/NA
Magnesium	20000		4.2	1.7	mg/Kg	1	☼	6010B	Total/NA
Manganese	260	B	0.42	0.083	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.42	0.11	mg/Kg	1	☼	6010B	Total/NA
Potassium	2200		21	3.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.42	0.21	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		42	5.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.21	0.061	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		0.84	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.67		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.056		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.37		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.023		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	8.37		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.041		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0079	J	0.036	0.0060	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.064		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.047		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.028	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.035	J	0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.039		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.012	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.025	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (0-8) (Continued)

Lab Sample ID: 500-107508-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5	B	0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	9.2		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	45000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	14	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	340	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	590		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.63		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	8.98		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.059		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.032	J	0.037	0.0074	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4	B	0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	8.9		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	71000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.50	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	21		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	31000		5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	350	B	0.50	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		25	4.0	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		50	6.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.45	J	0.50	0.24	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (8-17) (Continued)

Lab Sample ID: 500-107508-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	15		0.25	0.072	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.36	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.11		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.28		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.052		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.056		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.099	J	0.19	0.045	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.22		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	2.0		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.42		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.25		0.19	0.096	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.3		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.7		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.96		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.98		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.2		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.52		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.87		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.39		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.34		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.7	B	0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	21		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.23		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	4.5		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.071	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	110000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	8.0	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.1		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	14		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	65000		53	22	mg/Kg	10	☼	6010B	Total/NA
Manganese	400	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		53	7.0	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (0-8) (Continued)

Lab Sample ID: 500-107508-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	14		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.25	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.24	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	9.17		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.031	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.098		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0077	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.083		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.037	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.022	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	11	B	0.51	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	40		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.5	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.51	0.087	mg/Kg	1	☼	6010B	Total/NA
Cobalt	14		0.25	0.057	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	28000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	360	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	36		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		10	3.2	mg/Kg	10	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.074	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.053		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.067	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.16		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.09		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (16-24) (Continued)

Lab Sample ID: 500-107508-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.053		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.16		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0084	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.092		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0078	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.044		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.028	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.4	B	0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.50	0.091	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.20	0.043	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.5	0.35	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B	99	32	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.50	0.085	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.25	0.056	mg/Kg	1	☼	6010B	Total/NA
Copper	23		0.50	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	9.9	3.8	mg/Kg	1	☼	6010B	Total/NA
Lead	14		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000		5.0	2.0	mg/Kg	1	☼	6010B	Total/NA
Manganese	310	B	0.50	0.098	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.50	0.13	mg/Kg	1	☼	6010B	Total/NA
Potassium	2800		25	4.1	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		50	6.6	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.41	J	0.50	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.25	0.073	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		9.9	3.1	mg/Kg	10	☼	6010B	Total/NA
Barium	0.64		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.54		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.2		0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.34		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.030		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	8.32		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.078		0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.27		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.010	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0081	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.022	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.034	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.0	B	0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (24-30) (Continued)

Lab Sample ID: 500-107508-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.65		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	16		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	29		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	21000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	300	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.47	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	53		11	3.5	mg/Kg	10	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.58		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.023	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.2		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.056		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.028		0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.18		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107508-1	2746-01-B18 (0-8)	Solid	02/11/16 10:10	02/12/16 07:55
500-107508-2	2746-01-B18 (8-16)	Solid	02/11/16 10:13	02/12/16 07:55
500-107508-3	2746-01-B18 (16-24)	Solid	02/11/16 10:17	02/12/16 07:55
500-107508-4	2746-01-B18 (24-30)	Solid	02/11/16 10:20	02/12/16 07:55
500-107508-5	2746-01-B18 (24-30)D	Solid	02/11/16 10:20	02/12/16 07:55
500-107508-6	2746-01-B17 (0-8)	Solid	02/11/16 10:57	02/12/16 07:55
500-107508-7	2746-01-B17 (8-16)	Solid	02/11/16 11:00	02/12/16 07:55
500-107508-8	2746-01-B16 (0-8)	Solid	02/11/16 11:45	02/12/16 07:55
500-107508-9	2746-01-B16 (8-16)	Solid	02/11/16 11:47	02/12/16 07:55
500-107508-10	2746-01-B16 (16-24)	Solid	02/11/16 11:52	02/12/16 07:55
500-107508-11	2746-01-B16 (24-30)	Solid	02/11/16 12:03	02/12/16 07:55
500-107508-12	2746-01-B15 (0-8)	Solid	02/11/16 12:45	02/12/16 07:55
500-107508-13	2746-01-B15 (8-17)	Solid	02/11/16 12:50	02/12/16 07:55
500-107508-14	2746-01-B14 (0-8)	Solid	02/11/16 14:05	02/12/16 07:55
500-107508-15	2746-01-B14 (8-16)	Solid	02/11/16 14:13	02/12/16 07:55
500-107508-16	2746-01-B14 (16-24)	Solid	02/11/16 14:17	02/12/16 07:55
500-107508-17	2746-01-B14 (24-30)	Solid	02/11/16 14:23	02/12/16 07:55

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Date Collected: 02/11/16 10:10

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/12/16 09:20	02/17/16 05:35	1
Dibromofluoromethane	97		75 - 120	02/12/16 09:20	02/17/16 05:35	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/12/16 09:20	02/17/16 05:35	1
Toluene-d8 (Surr)	104		75 - 122	02/12/16 09:20	02/17/16 05:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Date Collected: 02/11/16 10:10

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Hexachloroethane	<0.19	F1	0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,4-Dimethylphenol	<0.37	F2	0.37	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Hexachlorocyclopentadiene	<0.76	F1	0.76	0.22	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,4-Dinitrophenol	<0.76	F1	0.76	0.66	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Pentachlorophenol	<0.76	F1	0.76	0.60	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
4,6-Dinitro-2-methylphenol	<0.76	F1	0.76	0.30	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Phenanthrene	0.086		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Anthracene	0.018	J	0.037	0.0063	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Fluoranthene	0.19		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Pyrene	0.14	F1	0.037	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Butyl benzyl phthalate	<0.19	F1	0.19	0.071	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Benzo[a]anthracene	0.077		0.037	0.0050	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Date Collected: 02/11/16 10:10

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.11		0.037	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Bis(2-ethylhexyl) phthalate	<0.19	F1	0.19	0.068	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Benzo[b]fluoranthene	0.16		0.037	0.0081	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Benzo[k]fluoranthene	0.055		0.037	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Benzo[a]pyrene	0.086		0.037	0.0073	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Indeno[1,2,3-cd]pyrene	0.051	F1	0.037	0.0097	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Dibenz(a,h)anthracene	0.012	J	0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
Benzo[g,h,i]perylene	0.043	F1	0.037	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/21/16 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	02/12/16 15:29	02/21/16 19:06	1
Phenol-d5	67		31 - 110	02/12/16 15:29	02/21/16 19:06	1
Nitrobenzene-d5	55		25 - 115	02/12/16 15:29	02/21/16 19:06	1
2-Fluorobiphenyl	61		25 - 119	02/12/16 15:29	02/21/16 19:06	1
2,4,6-Tribromophenol	72		35 - 137	02/12/16 15:29	02/21/16 19:06	1
Terphenyl-d14	84		36 - 134	02/12/16 15:29	02/21/16 19:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1 F2	1.1	0.24	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Arsenic	4.3	F1 B	0.57	0.26	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Barium	30		0.57	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Beryllium	0.41		0.23	0.049	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Boron	4.3	F1	2.9	0.40	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Cadmium	0.037	J	0.11	0.033	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Calcium	45000	B	110	37	mg/Kg	☼	02/15/16 09:56	02/18/16 13:22	10
Chromium	12	B	0.57	0.098	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Cobalt	5.5		0.29	0.065	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Copper	15	F1	0.57	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Iron	11000	F2 B	11	4.4	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Lead	15	F1 F2	0.29	0.14	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Magnesium	22000		5.7	2.3	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Manganese	240	B	0.57	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Nickel	17		0.57	0.15	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Potassium	850	F1	29	4.7	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Selenium	0.42	J F1 F2	0.57	0.28	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Silver	<0.29	F2	0.29	0.067	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Sodium	380		57	7.5	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Vanadium	19		0.29	0.083	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1
Zinc	58		1.1	0.36	mg/Kg	☼	02/15/16 09:56	02/17/16 22:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 19:22	1
Boron	0.054	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:22	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Date Collected: 02/11/16 10:10

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Iron	<0.40		0.40	0.20	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Manganese	1.8		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Silver	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:22	1
Zinc	0.056	J	0.50	0.020	mg/L	-	02/16/16 14:24	02/17/16 19:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L	-	02/16/16 14:30	02/18/16 18:23	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L	-	02/16/16 14:24	02/17/16 18:37	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	02/16/16 14:24	02/17/16 18:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.74		0.200	0.200	SU	-		02/15/16 20:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/12/16 09:20	02/17/16 06:01	1
Dibromofluoromethane	98		75 - 120	02/12/16 09:20	02/17/16 06:01	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/12/16 09:20	02/17/16 06:01	1
Toluene-d8 (Surr)	107		75 - 122	02/12/16 09:20	02/17/16 06:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Naphthalene	0.016	J	0.040	0.0061	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2-Methylnaphthalene	0.051		0.040	0.0073	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Phenanthrene	0.053		0.040	0.0056	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Pyrene	0.021	J	0.040	0.0079	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.025	J	0.040	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
Benzo[g,h,i]perylene	0.015	J	0.040	0.013	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 15:29	02/21/16 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/12/16 15:29	02/21/16 19:36	1
Phenol-d5	75		31 - 110	02/12/16 15:29	02/21/16 19:36	1
Nitrobenzene-d5	74		25 - 115	02/12/16 15:29	02/21/16 19:36	1
2-Fluorobiphenyl	71		25 - 119	02/12/16 15:29	02/21/16 19:36	1
2,4,6-Tribromophenol	76		35 - 137	02/12/16 15:29	02/21/16 19:36	1
Terphenyl-d14	85		36 - 134	02/12/16 15:29	02/21/16 19:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Arsenic	5.8	B	0.59	0.27	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Barium	34		0.59	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Beryllium	0.59		0.24	0.052	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Boron	11		3.0	0.42	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Calcium	69000	B	120	38	mg/Kg	☼	02/15/16 09:56	02/18/16 13:50	10
Chromium	16	B	0.59	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Cobalt	12		0.30	0.067	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Copper	24		0.59	0.13	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Iron	16000	B	12	4.6	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Lead	13		0.30	0.15	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Magnesium	29000		5.9	2.4	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Manganese	380	B	0.59	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Nickel	31		0.59	0.16	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Potassium	2400		30	4.9	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Sodium	260		59	7.9	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Vanadium	19		0.30	0.087	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1
Zinc	51		1.2	0.38	mg/Kg	☼	02/15/16 09:56	02/17/16 22:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 19:29	1
Boron	0.054	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 81.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Cobalt	0.021	J	0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Iron	<0.40		0.40	0.20	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Manganese	2.3		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Nickel	0.052		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Silver	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 19:29	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/16/16 14:24	02/17/16 19:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L	-	02/16/16 14:30	02/18/16 18:50	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L	-	02/16/16 14:24	02/17/16 18:41	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	02/16/16 14:24	02/17/16 18:41	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0097	mg/Kg	☼	02/16/16 16:00	02/17/16 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.03		0.200	0.200	SU	-		02/15/16 20:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,3-Dichloropropene, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Tetrachloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/12/16 09:20	02/17/16 06:26	1
Dibromofluoromethane	97		75 - 120	02/12/16 09:20	02/17/16 06:26	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 06:26	1
Toluene-d8 (Surr)	108		75 - 122	02/12/16 09:20	02/17/16 06:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Naphthalene	0.043		0.038	0.0059	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2-Methylnaphthalene	0.12		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Fluorene	0.010 J		0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Phenanthrene	0.090		0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Fluoranthene	0.011 J		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Pyrene	0.033 J		0.038	0.0077	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.030	J	0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
Benzo[g,h,i]perylene	0.021	J	0.038	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		25 - 110	02/12/16 15:29	02/21/16 20:05	1
Phenol-d5	87		31 - 110	02/12/16 15:29	02/21/16 20:05	1
Nitrobenzene-d5	86		25 - 115	02/12/16 15:29	02/21/16 20:05	1
2-Fluorobiphenyl	81		25 - 119	02/12/16 15:29	02/21/16 20:05	1
2,4,6-Tribromophenol	93		35 - 137	02/12/16 15:29	02/21/16 20:05	1
Terphenyl-d14	113		36 - 134	02/12/16 15:29	02/21/16 20:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Arsenic	5.6	B	0.51	0.23	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Barium	43		0.51	0.093	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Beryllium	0.65		0.20	0.044	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Boron	14		2.5	0.35	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Calcium	59000	B	100	33	mg/Kg	☼	02/15/16 09:56	02/18/16 13:54	10
Chromium	17	B	0.51	0.087	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Cobalt	13		0.25	0.057	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Copper	22		0.51	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Iron	17000	B	10	3.9	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Lead	13		0.25	0.13	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Magnesium	24000		5.1	2.1	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Manganese	320	B	0.51	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Nickel	35		0.51	0.14	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Potassium	2600		25	4.1	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Selenium	0.29	J	0.51	0.25	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Sodium	180		51	6.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Vanadium	20		0.25	0.074	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1
Zinc	54		1.0	0.32	mg/Kg	☼	02/15/16 09:56	02/17/16 23:03	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 19:36	1
Boron	0.72	F1	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 19:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:36	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:36	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 19:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 19:36	1
Manganese	2.1		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:36	1
Nickel	0.043		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 19:36	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:36	1
Zinc	0.22	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 19:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 18:57	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 18:53	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 18:53	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.43		0.200	0.200	SU			02/15/16 20:47	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.021		0.017	0.0034	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Carbon tetrachloride	<0.0044		0.0044	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Chloroethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Chloroform	<0.0044		0.0044	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Chloromethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00069	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1
Xylenes, Total	<0.0087		0.0087	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/12/16 09:20	02/17/16 06:52	1
Dibromofluoromethane	94		75 - 120	02/12/16 09:20	02/17/16 06:52	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/12/16 09:20	02/17/16 06:52	1
Toluene-d8 (Surr)	107		75 - 122	02/12/16 09:20	02/17/16 06:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Naphthalene	0.047		0.037	0.0058	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2-Methylnaphthalene	0.15		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Acenaphthene	0.017 J		0.037	0.0067	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Fluorene	0.017 J		0.037	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Phenanthrene	0.15		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Anthracene	0.0098 J		0.037	0.0063	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Fluoranthene	0.016 J		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Pyrene	0.045		0.037	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Benzo[a]anthracene	0.0088 J		0.037	0.0050	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.037	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/21/16 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		25 - 110	02/12/16 15:29	02/21/16 20:35	1
Phenol-d5	82		31 - 110	02/12/16 15:29	02/21/16 20:35	1
Nitrobenzene-d5	78		25 - 115	02/12/16 15:29	02/21/16 20:35	1
2-Fluorobiphenyl	81		25 - 119	02/12/16 15:29	02/21/16 20:35	1
2,4,6-Tribromophenol	80		35 - 137	02/12/16 15:29	02/21/16 20:35	1
Terphenyl-d14	115		36 - 134	02/12/16 15:29	02/21/16 20:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Arsenic	6.9	B	0.50	0.23	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Barium	26		0.50	0.091	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Beryllium	0.48		0.20	0.043	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Boron	12		2.5	0.35	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Calcium	61000	B	100	32	mg/Kg	☼	02/15/16 09:56	02/18/16 13:58	10
Chromium	13	B	0.50	0.086	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Cobalt	12		0.25	0.056	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Copper	25		0.50	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Iron	15000	B	10	3.8	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Lead	13		0.25	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Magnesium	27000		5.0	2.0	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Manganese	350	B	0.50	0.099	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Nickel	30		0.50	0.13	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Potassium	2100		25	4.1	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Selenium	0.47	J	0.50	0.25	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Sodium	160		50	6.6	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Thallium	<0.50		0.50	0.24	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Vanadium	15		0.25	0.073	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1
Zinc	55		1.0	0.31	mg/Kg	☼	02/15/16 09:56	02/17/16 23:08	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 20:03	1
Boron	0.53		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Cobalt	0.026		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Iron	<0.40		0.40	0.20	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Manganese	1.9		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Nickel	0.061		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Silver	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:03	1
Zinc	0.039	J	0.50	0.020	mg/L	-	02/16/16 14:24	02/17/16 20:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.025	0.010	mg/L	-	02/16/16 14:30	02/18/16 19:04	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/16/16 14:24	02/17/16 19:09	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	02/16/16 14:24	02/17/16 19:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 10:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.017	0.0090	mg/Kg	☼	02/16/16 16:00	02/17/16 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.200	0.200	SU	-		02/15/16 21:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0032	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/12/16 09:20	02/17/16 07:17	1
Dibromofluoromethane	96		75 - 120	02/12/16 09:20	02/17/16 07:17	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 07:17	1
Toluene-d8 (Surr)	106		75 - 122	02/12/16 09:20	02/17/16 07:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Naphthalene	0.047		0.037	0.0057	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2-Methylnaphthalene	0.16		0.037	0.0068	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Fluorene	0.015 J		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Phenanthrene	0.14		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Fluoranthene	0.013 J		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Pyrene	0.045		0.037	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Benzo[a]anthracene	0.0061 J		0.037	0.0050	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.037	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/21/16 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110				02/12/16 15:29	02/21/16 21:04	1
Phenol-d5	71		31 - 110				02/12/16 15:29	02/21/16 21:04	1
Nitrobenzene-d5	72		25 - 115				02/12/16 15:29	02/21/16 21:04	1
2-Fluorobiphenyl	74		25 - 119				02/12/16 15:29	02/21/16 21:04	1
2,4,6-Tribromophenol	75		35 - 137				02/12/16 15:29	02/21/16 21:04	1
Terphenyl-d14	121		36 - 134				02/12/16 15:29	02/21/16 21:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.89		0.89	0.18	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Arsenic	4.2	B	0.44	0.20	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Barium	41		0.44	0.081	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Beryllium	0.60		0.18	0.038	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Boron	13		2.2	0.31	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Cadmium	<0.089		0.089	0.026	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Calcium	52000	B	89	29	mg/Kg	☼	02/15/16 09:56	02/18/16 14:02	10
Chromium	16	B	0.44	0.076	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Cobalt	12		0.22	0.050	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Copper	19		0.44	0.096	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Iron	16000	B	8.9	3.4	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Lead	12		0.22	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Magnesium	19000		4.4	1.8	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Manganese	270	B	0.44	0.088	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Nickel	32		0.44	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Potassium	2400		22	3.6	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Selenium	<0.44		0.44	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Sodium	180		44	5.8	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Thallium	<0.44		0.44	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Vanadium	18		0.22	0.065	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1
Zinc	49		0.89	0.28	mg/Kg	☼	02/15/16 09:56	02/17/16 23:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 20:10	1
Boron	0.53		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:10	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:10	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 20:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 20:10	1
Manganese	1.8		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:10	1
Nickel	0.053		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 20:10	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:10	1
Zinc	0.12	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 20:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 19:10	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:13	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0087	mg/Kg	☼	02/16/16 16:00	02/17/16 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			02/15/16 21:14	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Date Collected: 02/11/16 10:57

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 91.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
2-Butanone (MEK)	<0.0038		0.0038	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Chlorobenzene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Dibromochloromethane	<0.0038		0.0038	0.00043	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Styrene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Tetrachloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/12/16 09:20	02/17/16 07:44	1
Dibromofluoromethane	97		75 - 120	02/12/16 09:20	02/17/16 07:44	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/12/16 09:20	02/17/16 07:44	1
Toluene-d8 (Surr)	104		75 - 122	02/12/16 09:20	02/17/16 07:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.079	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Date Collected: 02/11/16 10:57

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 91.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,4,5-Trichlorophenol	<0.35		0.35	0.081	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2-Methylnaphthalene	<0.035		0.035	0.0065	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2-Nitrophenol	<0.35		0.35	0.084	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Acenaphthylene	<0.035		0.035	0.0047	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Acenaphthene	0.0068	J	0.035	0.0064	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4-Nitrophenol	<0.71		0.71	0.34	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Fluorene	0.0070	J	0.035	0.0050	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Pentachlorophenol	<0.71		0.71	0.57	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Phenanthrene	0.059		0.035	0.0049	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Anthracene	0.012	J	0.035	0.0059	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Fluoranthene	0.092		0.035	0.0066	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Pyrene	0.10		0.035	0.0070	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Benzo[a]anthracene	0.043		0.035	0.0048	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Date Collected: 02/11/16 10:57

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 91.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.049		0.035	0.0096	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Benzo[b]fluoranthene	0.071		0.035	0.0076	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Benzo[k]fluoranthene	0.030	J	0.035	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Benzo[a]pyrene	0.043		0.035	0.0068	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Indeno[1,2,3-cd]pyrene	0.016	J	0.035	0.0092	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
Benzo[g,h,i]perylene	0.014	J	0.035	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	82		25 - 110	02/12/16 15:29	02/21/16 21:34	1
Phenol-d5	77		31 - 110	02/12/16 15:29	02/21/16 21:34	1
Nitrobenzene-d5	77		25 - 115	02/12/16 15:29	02/21/16 21:34	1
2-Fluorobiphenyl	77		25 - 119	02/12/16 15:29	02/21/16 21:34	1
2,4,6-Tribromophenol	84		35 - 137	02/12/16 15:29	02/21/16 21:34	1
Terphenyl-d14	118		36 - 134	02/12/16 15:29	02/21/16 21:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.90		0.90	0.19	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Arsenic	3.5	B	0.45	0.21	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Barium	28		0.45	0.083	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Beryllium	0.30		0.18	0.039	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Boron	4.9		2.3	0.32	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Cadmium	0.071	J	0.090	0.026	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Calcium	57000	B	90	29	mg/Kg	☼	02/15/16 09:56	02/18/16 14:06	10
Chromium	9.7	B	0.45	0.078	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Cobalt	6.4		0.23	0.051	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Copper	13		0.45	0.098	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Iron	10000	B	9.0	3.5	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Lead	12		0.23	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Magnesium	26000		4.5	1.8	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Manganese	390	B	0.45	0.089	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Nickel	16		0.45	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Potassium	820		23	3.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Sodium	320		45	6.0	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Vanadium	16		0.23	0.066	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1
Zinc	54		0.90	0.29	mg/Kg	☼	02/15/16 09:56	02/17/16 23:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 20:32	1
Boron	0.43	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Date Collected: 02/11/16 10:57

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 91.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 20:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:32	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:32	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 20:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 20:32	1
Manganese	1.7		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:32	1
Nickel	0.011	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 20:32	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:32	1
Zinc	0.25	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 20:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.031		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 19:33	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:18	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:18	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0093	mg/Kg	☼	02/16/16 16:00	02/17/16 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.11		0.200	0.200	SU			02/15/16 21:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Date Collected: 02/11/16 11:00

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Benzene	<0.0042		0.0042	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
2-Butanone (MEK)	<0.0042 *		0.0042	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Chlorobenzene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Styrene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1
Xylenes, Total	<0.0084		0.0084	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/12/16 09:20	02/17/16 05:37	1
Dibromofluoromethane	107		75 - 120	02/12/16 09:20	02/17/16 05:37	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/12/16 09:20	02/17/16 05:37	1
Toluene-d8 (Surr)	110		75 - 122	02/12/16 09:20	02/17/16 05:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Date Collected: 02/11/16 11:00

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Fluorene	0.0067	J	0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Phenanthrene	0.031	J	0.038	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Pyrene	0.021	J	0.038	0.0076	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Date Collected: 02/11/16 11:00

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	64		25 - 110				02/12/16 15:29	02/21/16 22:03	1
Phenol-d5	66		31 - 110				02/12/16 15:29	02/21/16 22:03	1
Nitrobenzene-d5	60		25 - 115				02/12/16 15:29	02/21/16 22:03	1
2-Fluorobiphenyl	65		25 - 119				02/12/16 15:29	02/21/16 22:03	1
2,4,6-Tribromophenol	80		35 - 137				02/12/16 15:29	02/21/16 22:03	1
Terphenyl-d14	110		36 - 134				02/12/16 15:29	02/21/16 22:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Arsenic	4.9	B	0.48	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Barium	11		0.48	0.089	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Beryllium	0.25		0.19	0.042	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Boron	6.0		2.4	0.34	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Cadmium	<0.097		0.097	0.028	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Calcium	63000	B	97	31	mg/Kg	☼	02/15/16 09:56	02/18/16 14:10	10
Chromium	7.8	B	0.48	0.083	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Cobalt	7.5		0.24	0.055	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Copper	19		0.48	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Iron	9500	B	9.7	3.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Lead	8.6		0.24	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Magnesium	30000		4.8	2.0	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Manganese	350	B	0.48	0.096	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Nickel	26		0.48	0.13	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Potassium	1100		24	4.0	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Selenium	0.32	J	0.48	0.24	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Sodium	210		48	6.4	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Thallium	0.26	J	0.48	0.24	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Vanadium	11		0.24	0.071	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1
Zinc	54		0.97	0.31	mg/Kg	☼	02/15/16 09:56	02/17/16 23:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.22	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 20:39	1
Boron	0.44	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Date Collected: 02/11/16 11:00

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 20:39	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:39	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:39	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 20:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 20:39	1
Manganese	1.7		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:39	1
Nickel	0.042		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 20:39	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:39	1
Zinc	0.64		0.50	0.020	mg/L		02/16/16 14:24	02/17/16 20:39	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.082		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 19:40	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:22	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU			02/15/16 21:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/12/16 09:20	02/17/16 15:10	1
Dibromofluoromethane	93		75 - 120	02/12/16 09:20	02/17/16 15:10	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/12/16 09:20	02/17/16 15:10	1
Toluene-d8 (Surr)	102		75 - 122	02/12/16 09:20	02/17/16 15:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
1,3-Dichlorobenzene	<0.17		0.17	0.039	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 92.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2-Chlorophenol	<0.17		0.17	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Nitrobenzene	<0.034		0.034	0.0086	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Isophorone	<0.17		0.17	0.039	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Naphthalene	0.10		0.034	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,4-Dichlorophenol	<0.34		0.34	0.082	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2-Methylnaphthalene	0.098		0.034	0.0063	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,6-Dinitrotoluene	<0.17		0.17	0.068	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,4-Dinitrophenol	<0.69		0.69	0.60	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Acenaphthylene	0.019 J		0.034	0.0045	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
2,4-Dinitrotoluene	<0.17		0.17	0.055	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Acenaphthene	0.36		0.034	0.0062	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Dibenzofuran	0.33		0.17	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4-Nitrophenol	<0.69		0.69	0.33	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Fluorene	0.59		0.034	0.0048	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Hexachlorobenzene	<0.069		0.069	0.0080	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
N-Nitrosodiphenylamine	<0.17		0.17	0.041	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.28	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Anthracene	1.2		0.034	0.0057	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Carbazole	0.41		0.17	0.086	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Benzo[a]anthracene	1.9		0.034	0.0046	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Chrysene	1.7		0.034	0.0094	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 92.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		25 - 110				02/12/16 15:29	02/21/16 22:33	1
Phenol-d5	73		31 - 110				02/12/16 15:29	02/21/16 22:33	1
Nitrobenzene-d5	66		25 - 115				02/12/16 15:29	02/21/16 22:33	1
2-Fluorobiphenyl	70		25 - 119				02/12/16 15:29	02/21/16 22:33	1
2,4,6-Tribromophenol	75		35 - 137				02/12/16 15:29	02/21/16 22:33	1
Terphenyl-d14	124		36 - 134				02/12/16 15:29	02/21/16 22:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	5.2		0.14	0.019	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Fluoranthene	5.2		0.14	0.025	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Pyrene	4.7		0.14	0.027	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Benzo[b]fluoranthene	2.9		0.14	0.030	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Benzo[k]fluoranthene	1.1		0.14	0.040	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Benzo[a]pyrene	1.6		0.14	0.027	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Indeno[1,2,3-cd]pyrene	0.57		0.14	0.036	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Dibenz(a,h)anthracene	0.20		0.14	0.027	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4
Benzo[g,h,i]perylene	0.48		0.14	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 21:05	4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Arsenic	3.2	B	0.48	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Barium	21		0.48	0.087	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Beryllium	0.23		0.19	0.041	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Boron	4.3		2.4	0.33	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Cadmium	0.069	J	0.095	0.028	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Calcium	85000	B	95	31	mg/Kg	☼	02/15/16 09:56	02/18/16 14:14	10
Chromium	6.9	B	0.48	0.082	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Cobalt	8.4		0.24	0.054	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Copper	14		0.48	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Iron	8900	B	9.5	3.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Lead	8.2		0.24	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Magnesium	37000		4.8	1.9	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Manganese	460	B	0.48	0.094	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Nickel	15		0.48	0.13	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Potassium	620		24	3.9	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Sodium	200		48	6.3	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Vanadium	11		0.24	0.070	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1
Zinc	41		0.95	0.30	mg/Kg	☼	02/15/16 09:56	02/17/16 23:35	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 92.8

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Boron	0.48	J	0.50	0.050	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Cobalt	0.013	J	0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Iron	<0.40		0.40	0.20	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Manganese	1.9		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Nickel	0.018	J	0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Silver	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 20:46	1
Zinc	0.15	J	0.50	0.020	mg/L	-	02/16/16 14:24	02/17/16 20:46	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.17		0.025	0.010	mg/L	-	02/16/16 14:30	02/18/16 19:46	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/16/16 14:24	02/17/16 19:26	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	02/16/16 14:24	02/17/16 19:26	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0089	mg/Kg	☼	02/16/16 16:00	02/17/16 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.02		0.200	0.200	SU	-		02/15/16 22:07	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0038	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Benzene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Bromodichloromethane	<0.0049		0.0049	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Bromoform	<0.0049		0.0049	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
2-Butanone (MEK)	<0.0049 *		0.0049	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Carbon disulfide	<0.0049		0.0049	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Carbon tetrachloride	<0.0049		0.0049	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Chlorobenzene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Chloroethane	<0.0049		0.0049	0.0020	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Chloroform	<0.0049		0.0049	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Chloromethane	<0.0049		0.0049	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
cis-1,2-Dichloroethene	<0.0049		0.0049	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
cis-1,3-Dichloropropene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Dibromochloromethane	<0.0049		0.0049	0.00056	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,1-Dichloroethane	<0.0049		0.0049	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,2-Dichloroethane	<0.0049		0.0049	0.00072	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,1-Dichloroethene	<0.0049		0.0049	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,2-Dichloropropane	<0.0049		0.0049	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,3-Dichloropropene, Total	<0.0049		0.0049	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Ethylbenzene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Methylene Chloride	<0.0049		0.0049	0.0037	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
4-Methyl-2-pentanone (MIBK)	<0.0049		0.0049	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Methyl tert-butyl ether	<0.0049		0.0049	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Styrene	<0.0049		0.0049	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,1,1,2-Tetrachloroethane	<0.0049		0.0049	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Tetrachloroethene	<0.0049		0.0049	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Toluene	<0.0049		0.0049	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
trans-1,2-Dichloroethene	<0.0049		0.0049	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
trans-1,3-Dichloropropene	<0.0049		0.0049	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,1,1-Trichloroethane	<0.0049		0.0049	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
1,1,2-Trichloroethane	<0.0049		0.0049	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Trichloroethene	<0.0049		0.0049	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Vinyl acetate	<0.0049		0.0049	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Vinyl chloride	<0.0049		0.0049	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1
Xylenes, Total	<0.0097		0.0097	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/12/16 09:20	02/17/16 06:27	1
Dibromofluoromethane	108		75 - 120	02/12/16 09:20	02/17/16 06:27	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134	02/12/16 09:20	02/17/16 06:27	1
Toluene-d8 (Surr)	109		75 - 122	02/12/16 09:20	02/17/16 06:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Acenaphthene	0.0091	J	0.039	0.0070	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Fluorene	0.010	J	0.039	0.0055	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Phenanthrene	0.093		0.039	0.0054	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Anthracene	0.0080	J	0.039	0.0065	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Fluoranthene	0.017	J	0.039	0.0072	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Pyrene	0.044		0.039	0.0078	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.032	J	0.039	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/12/16 15:29	02/21/16 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110				02/12/16 15:29	02/21/16 23:02	1
Phenol-d5	70		31 - 110				02/12/16 15:29	02/21/16 23:02	1
Nitrobenzene-d5	70		25 - 115				02/12/16 15:29	02/21/16 23:02	1
2-Fluorobiphenyl	76		25 - 119				02/12/16 15:29	02/21/16 23:02	1
2,4,6-Tribromophenol	89		35 - 137				02/12/16 15:29	02/21/16 23:02	1
Terphenyl-d14	140	X	36 - 134				02/12/16 15:29	02/21/16 23:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Arsenic	6.0	B	0.59	0.27	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Barium	29		0.59	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Beryllium	0.53		0.23	0.051	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Boron	9.6		2.9	0.41	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Calcium	67000	B	120	38	mg/Kg	☼	02/15/16 09:56	02/18/16 14:18	10
Chromium	14	B	0.59	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Cobalt	11		0.29	0.066	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Copper	23		0.59	0.13	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Iron	15000	B	12	4.5	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Lead	12		0.29	0.15	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Magnesium	30000		5.9	2.4	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Manganese	370	B	0.59	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Nickel	28		0.59	0.16	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Potassium	2000		29	4.8	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Selenium	<0.59		0.59	0.29	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Sodium	220		59	7.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Thallium	0.57	J	0.59	0.29	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Vanadium	16		0.29	0.085	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1
Zinc	43		1.2	0.37	mg/Kg	☼	02/15/16 09:56	02/17/16 23:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 20:52	1
Boron	0.53		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:52	1
Cobalt	0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:52	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 20:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 20:52	1
Manganese	2.5		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:52	1
Nickel	0.058		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 20:52	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:52	1
Zinc	0.26	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 20:52	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.051		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 19:53	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:30	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:30	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017		0.017	0.0090	mg/Kg	☼	02/16/16 16:00	02/17/16 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			02/15/16 22:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Date Collected: 02/11/16 11:52

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Benzene	<0.0038		0.0038	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Bromodichloromethane	<0.0038		0.0038	0.00065	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Bromoform	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Carbon tetrachloride	<0.0038		0.0038	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Chlorobenzene	<0.0038		0.0038	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Chloroform	<0.0038		0.0038	0.00075	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Chloromethane	<0.0038		0.0038	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,1-Dichloroethane	<0.0038		0.0038	0.00079	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,2-Dichloroethane	<0.0038		0.0038	0.00057	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,2-Dichloropropane	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,3-Dichloropropene, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Ethylbenzene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00079	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Styrene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00061	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Tetrachloroethene	<0.0038		0.0038	0.00080	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00096	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Vinyl chloride	<0.0038		0.0038	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/12/16 09:20	02/17/16 15:36	1
Dibromofluoromethane	99		75 - 120	02/12/16 09:20	02/17/16 15:36	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/12/16 09:20	02/17/16 15:36	1
Toluene-d8 (Surr)	107		75 - 122	02/12/16 09:20	02/17/16 15:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Date Collected: 02/11/16 11:52

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Naphthalene	0.042		0.037	0.0058	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2-Methylnaphthalene	0.10		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Fluorene	0.0076 J		0.037	0.0053	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Phenanthrene	0.085		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Fluoranthene	0.0088 J		0.037	0.0070	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Pyrene	0.034 J		0.037	0.0075	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Date Collected: 02/11/16 11:52

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.024	J	0.037	0.010	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
Benzo[g,h,i]perylene	0.015	J	0.037	0.012	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/21/16 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		25 - 110	02/12/16 15:29	02/21/16 23:32	1
Phenol-d5	71		31 - 110	02/12/16 15:29	02/21/16 23:32	1
Nitrobenzene-d5	66		25 - 115	02/12/16 15:29	02/21/16 23:32	1
2-Fluorobiphenyl	69		25 - 119	02/12/16 15:29	02/21/16 23:32	1
2,4,6-Tribromophenol	77		35 - 137	02/12/16 15:29	02/21/16 23:32	1
Terphenyl-d14	131		36 - 134	02/12/16 15:29	02/21/16 23:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.90		0.90	0.19	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Arsenic	7.6	B	0.45	0.21	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Barium	31		0.45	0.082	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Beryllium	0.48		0.18	0.039	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Boron	10		2.2	0.31	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Cadmium	<0.090		0.090	0.026	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Calcium	63000	B	90	29	mg/Kg	☼	02/15/16 09:56	02/18/16 14:31	10
Chromium	14	B	0.45	0.077	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Cobalt	11		0.22	0.051	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Copper	24		0.45	0.097	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Iron	14000	B	9.0	3.5	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Lead	13		0.22	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Magnesium	26000		4.5	1.8	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Manganese	300	B	0.45	0.089	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Nickel	29		0.45	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Potassium	1900		22	3.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Selenium	0.55		0.45	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Silver	<0.22		0.22	0.053	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Sodium	150		45	5.9	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Thallium	0.39	J	0.45	0.22	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Vanadium	16		0.22	0.066	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1
Zinc	51		0.90	0.28	mg/Kg	☼	02/15/16 09:56	02/17/16 23:45	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.56		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 20:59	1
Boron	0.59		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Date Collected: 02/11/16 11:52

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 20:59	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:59	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:59	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 20:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 20:59	1
Manganese	1.9		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:59	1
Nickel	0.046		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:59	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 20:59	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 20:59	1
Zinc	0.22	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 20:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.36		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 20:00	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:46	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:46	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0091	mg/Kg	☼	02/16/16 16:00	02/17/16 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			02/15/16 22:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122	02/12/16 09:20	02/17/16 16:01	1
Dibromofluoromethane	94		75 - 120	02/12/16 09:20	02/17/16 16:01	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 16:01	1
Toluene-d8 (Surr)	108		75 - 122	02/12/16 09:20	02/17/16 16:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Naphthalene	0.062		0.037	0.0058	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2-Methylnaphthalene	0.20		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4-Nitrophenol	<0.75		0.75	0.36	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Hexachlorobenzene	<0.075		0.075	0.0087	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Phenanthrene	0.14		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Fluoranthene	0.015 J		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Pyrene	0.048		0.037	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Benzo[a]anthracene	0.0075 J		0.037	0.0050	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.033	J	0.037	0.010	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/22/16 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/12/16 15:29	02/22/16 00:01	1
Phenol-d5	78		31 - 110	02/12/16 15:29	02/22/16 00:01	1
Nitrobenzene-d5	73		25 - 115	02/12/16 15:29	02/22/16 00:01	1
2-Fluorobiphenyl	77		25 - 119	02/12/16 15:29	02/22/16 00:01	1
2,4,6-Tribromophenol	83		35 - 137	02/12/16 15:29	02/22/16 00:01	1
Terphenyl-d14	156	X	36 - 134	02/12/16 15:29	02/22/16 00:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.84		0.84	0.17	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Arsenic	5.7	B	0.42	0.19	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Barium	35		0.42	0.077	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Beryllium	0.51		0.17	0.036	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Boron	12		2.1	0.29	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Cadmium	<0.084		0.084	0.024	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Calcium	54000	B	84	27	mg/Kg	☼	02/15/16 09:56	02/18/16 14:35	10
Chromium	15	B	0.42	0.072	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Cobalt	12		0.21	0.047	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Copper	21		0.42	0.091	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Iron	14000	B	8.4	3.2	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Lead	13		0.21	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Magnesium	20000		4.2	1.7	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Manganese	260	B	0.42	0.083	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Nickel	34		0.42	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Potassium	2200		21	3.4	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Selenium	0.31	J	0.42	0.21	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Silver	<0.21		0.21	0.049	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Sodium	160		42	5.5	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Thallium	<0.42		0.42	0.21	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Vanadium	17		0.21	0.061	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1
Zinc	50		0.84	0.26	mg/Kg	☼	02/15/16 09:56	02/17/16 23:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 21:06	1
Boron	0.67		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:06	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 21:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:06	1
Cobalt	0.024	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:06	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 21:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 21:06	1
Manganese	2.0		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:06	1
Nickel	0.056		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 21:06	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:06	1
Zinc	0.11	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 21:06	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.37		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 20:07	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:50	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:50	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.017	0.0088	mg/Kg	☼	02/16/16 16:00	02/17/16 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			02/15/16 22:47	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Date Collected: 02/11/16 12:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Benzene	<0.0037		0.0037	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Bromodichloromethane	<0.0037		0.0037	0.00063	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Carbon tetrachloride	<0.0037		0.0037	0.00080	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Chlorobenzene	<0.0037		0.0037	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Chloroethane	<0.0037	*	0.0037	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Chloroform	<0.0037		0.0037	0.00073	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,1-Dichloroethane	<0.0037		0.0037	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,1-Dichloroethene	<0.0037		0.0037	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,2-Dichloropropane	<0.0037		0.0037	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,3-Dichloropropane, Total	<0.0037		0.0037	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Vinyl acetate	<0.0037		0.0037	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Vinyl chloride	<0.0037		0.0037	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1
Xylenes, Total	<0.0075		0.0075	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/12/16 09:20	02/17/16 16:27	1
Dibromofluoromethane	96		75 - 120	02/12/16 09:20	02/17/16 16:27	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 16:27	1
Toluene-d8 (Surr)	102		75 - 122	02/12/16 09:20	02/17/16 16:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Date Collected: 02/11/16 12:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2-Methylnaphthalene	<0.036		0.036	0.0067	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Phenanthrene	0.041		0.036	0.0050	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Anthracene	0.0079 J		0.036	0.0060	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Fluoranthene	0.064		0.036	0.0067	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Pyrene	0.047		0.036	0.0072	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Benzo[a]anthracene	0.028 J		0.036	0.0049	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Date Collected: 02/11/16 12:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.035	J	0.036	0.0099	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Benzo[b]fluoranthene	0.039		0.036	0.0078	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Benzo[k]fluoranthene	0.012	J	0.036	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Benzo[a]pyrene	0.025	J	0.036	0.0070	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Indeno[1,2,3-cd]pyrene	0.014	J	0.036	0.0094	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
Benzo[g,h,i]perylene	0.017	J	0.036	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	90		25 - 110	02/12/16 15:29	02/22/16 14:19	1
Phenol-d5	92		31 - 110	02/12/16 15:29	02/22/16 14:19	1
Nitrobenzene-d5	82		25 - 115	02/12/16 15:29	02/22/16 14:19	1
2-Fluorobiphenyl	73		25 - 119	02/12/16 15:29	02/22/16 14:19	1
2,4,6-Tribromophenol	70		35 - 137	02/12/16 15:29	02/22/16 14:19	1
Terphenyl-d14	87		36 - 134	02/12/16 15:29	02/22/16 14:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Arsenic	5.5	B	0.55	0.25	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Barium	39		0.55	0.10	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Beryllium	0.53		0.22	0.047	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Boron	9.2		2.7	0.38	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Cadmium	0.11		0.11	0.032	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Calcium	45000	B	110	35	mg/Kg	☼	02/15/16 09:56	02/18/16 14:39	10
Chromium	14	B	0.55	0.094	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Cobalt	10		0.27	0.062	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Copper	21		0.55	0.12	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Iron	14000	B	11	4.2	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Lead	21		0.27	0.14	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Magnesium	21000		5.5	2.2	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Manganese	340	B	0.55	0.11	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Nickel	25		0.55	0.15	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Potassium	1800		27	4.5	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Sodium	590		55	7.2	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Vanadium	19		0.27	0.080	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1
Zinc	61		1.1	0.35	mg/Kg	☼	02/15/16 09:56	02/17/16 23:55	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 21:13	1
Boron	0.57		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Date Collected: 02/11/16 12:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 90.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Iron	<0.40		0.40	0.20	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Manganese	1.5		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Nickel	0.011	J	0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Silver	<0.025		0.025	0.010	mg/L	-	02/16/16 14:24	02/17/16 21:13	1
Zinc	0.63		0.50	0.020	mg/L	-	02/16/16 14:24	02/17/16 21:13	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L	-	02/16/16 14:30	02/18/16 20:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/16/16 14:24	02/17/16 19:55	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L	-	02/16/16 14:24	02/17/16 19:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 10:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.017	0.0088	mg/Kg	☼	02/16/16 16:00	02/17/16 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.98		0.200	0.200	SU	-		02/15/16 23:01	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Date Collected: 02/11/16 12:50

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Chloroform	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Chloromethane	<0.0040		0.0040	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Ethylbenzene	<0.0040		0.0040	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Vinyl chloride	<0.0040		0.0040	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/12/16 09:20	02/17/16 16:52	1
Dibromofluoromethane	96		75 - 120	02/12/16 09:20	02/17/16 16:52	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/12/16 09:20	02/17/16 16:52	1
Toluene-d8 (Surr)	105		75 - 122	02/12/16 09:20	02/17/16 16:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Date Collected: 02/11/16 12:50

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Phenanthrene	0.059		0.037	0.0052	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Pyrene	0.032 J		0.037	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Date Collected: 02/11/16 12:50

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.037	0.010	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
Benzo[g,h,i]perylene	0.014	J	0.037	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/22/16 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110	02/12/16 15:29	02/22/16 01:00	1
Phenol-d5	76		31 - 110	02/12/16 15:29	02/22/16 01:00	1
Nitrobenzene-d5	71		25 - 115	02/12/16 15:29	02/22/16 01:00	1
2-Fluorobiphenyl	73		25 - 119	02/12/16 15:29	02/22/16 01:00	1
2,4,6-Tribromophenol	83		35 - 137	02/12/16 15:29	02/22/16 01:00	1
Terphenyl-d14	149	X	36 - 134	02/12/16 15:29	02/22/16 01:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Arsenic	6.4	B	0.50	0.23	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Barium	24		0.50	0.091	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Beryllium	0.40		0.20	0.043	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Boron	8.9		2.5	0.35	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Calcium	71000	B	99	32	mg/Kg	☼	02/15/16 09:56	02/18/16 14:43	10
Chromium	11	B	0.50	0.085	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Cobalt	10		0.25	0.056	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Copper	21		0.50	0.11	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Iron	13000	B	9.9	3.8	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Lead	11		0.25	0.12	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Magnesium	31000		5.0	2.0	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Manganese	350	B	0.50	0.098	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Nickel	25		0.50	0.13	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Potassium	1800		25	4.0	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Sodium	190		50	6.5	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Thallium	0.45	J	0.50	0.24	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Vanadium	15		0.25	0.072	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1
Zinc	43		0.99	0.31	mg/Kg	☼	02/15/16 09:56	02/18/16 00:00	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.47	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 21:19	1
Boron	0.45	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Date Collected: 02/11/16 12:50

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 21:19	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:19	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:19	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 21:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 21:19	1
Manganese	1.8		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:19	1
Nickel	0.043		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:19	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 21:19	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:19	1
Zinc	0.36	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 21:19	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.11		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 20:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 19:59	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 19:59	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			02/15/16 23:14	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0034	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Benzene	<0.0044		0.0044	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Bromodichloromethane	<0.0044		0.0044	0.00074	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Bromoform	<0.0044		0.0044	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Bromomethane	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
2-Butanone (MEK)	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Carbon disulfide	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Carbon tetrachloride	<0.0044		0.0044	0.00094	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Chlorobenzene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Chloroethane	<0.0044	*	0.0044	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Chloroform	<0.0044		0.0044	0.00086	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Chloromethane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
cis-1,2-Dichloroethene	<0.0044		0.0044	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
cis-1,3-Dichloropropene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Dibromochloromethane	<0.0044		0.0044	0.00050	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,1-Dichloroethane	<0.0044		0.0044	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,2-Dichloroethane	<0.0044		0.0044	0.00065	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,1-Dichloroethene	<0.0044		0.0044	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,2-Dichloropropane	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,3-Dichloropropane, Total	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Ethylbenzene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Methylene Chloride	<0.0044		0.0044	0.0033	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.00090	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Methyl tert-butyl ether	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Styrene	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,1,2,2-Tetrachloroethane	<0.0044		0.0044	0.00070	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Tetrachloroethene	<0.0044		0.0044	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Toluene	<0.0044		0.0044	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
trans-1,2-Dichloroethene	<0.0044		0.0044	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
trans-1,3-Dichloropropene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,1,1-Trichloroethane	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
1,1,2-Trichloroethane	<0.0044		0.0044	0.00085	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Trichloroethene	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Vinyl acetate	<0.0044		0.0044	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Vinyl chloride	<0.0044		0.0044	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1
Xylenes, Total	<0.0088		0.0088	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/12/16 09:20	02/17/16 17:18	1
Dibromofluoromethane	93		75 - 120	02/12/16 09:20	02/17/16 17:18	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 17:18	1
Toluene-d8 (Surr)	104		75 - 122	02/12/16 09:20	02/17/16 17:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Naphthalene	0.024	J	0.038	0.0059	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2-Methylnaphthalene	<0.038		0.038	0.0070	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Acenaphthylene	0.052		0.038	0.0051	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Acenaphthene	0.056		0.038	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Dibenzofuran	0.099	J	0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Fluorene	0.22		0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Phenanthrene	2.0		0.038	0.0053	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Anthracene	0.42		0.038	0.0064	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Carbazole	0.25		0.19	0.096	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Fluoranthene	2.3		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Pyrene	1.7		0.038	0.0076	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Benzo[a]anthracene	0.96		0.038	0.0052	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.98		0.038	0.010	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Benzo[b]fluoranthene	1.2		0.038	0.0083	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Benzo[k]fluoranthene	0.52		0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Benzo[a]pyrene	0.87		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Indeno[1,2,3-cd]pyrene	0.39		0.038	0.0099	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Dibenz(a,h)anthracene	0.12		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
Benzo[g,h,i]perylene	0.34		0.038	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	97		25 - 110	02/12/16 15:29	02/22/16 14:48	1
Phenol-d5	99		31 - 110	02/12/16 15:29	02/22/16 14:48	1
Nitrobenzene-d5	87		25 - 115	02/12/16 15:29	02/22/16 14:48	1
2-Fluorobiphenyl	80		25 - 119	02/12/16 15:29	02/22/16 14:48	1
2,4,6-Tribromophenol	87		35 - 137	02/12/16 15:29	02/22/16 14:48	1
Terphenyl-d14	96		36 - 134	02/12/16 15:29	02/22/16 14:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Arsenic	4.7	B	0.53	0.25	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Barium	21		0.53	0.097	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Beryllium	0.23		0.21	0.046	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Boron	4.5		2.7	0.37	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Cadmium	0.071	J	0.11	0.031	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Calcium	110000	B	110	34	mg/Kg	☼	02/15/16 09:56	02/18/16 14:47	10
Chromium	8.0	B	0.53	0.091	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Cobalt	4.1		0.27	0.060	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Copper	14		0.53	0.12	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Iron	12000	B	11	4.1	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Lead	10		0.27	0.13	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Magnesium	65000		53	22	mg/Kg	☼	02/15/16 09:56	02/18/16 14:47	10
Manganese	400	B	0.53	0.11	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Nickel	11		0.53	0.14	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Potassium	650		27	4.3	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Selenium	0.34	J	0.53	0.26	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Sodium	310		53	7.0	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Vanadium	14		0.27	0.078	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1
Zinc	56		1.1	0.34	mg/Kg	☼	02/15/16 09:56	02/18/16 00:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.25	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 21:26	1
Boron	0.57		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 21:26	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:26	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:26	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 21:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 21:26	1
Manganese	1.7		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:26	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:26	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 21:26	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:26	1
Zinc	0.24	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 21:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 20:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 20:03	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 20:03	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.17		0.200	0.200	SU			02/15/16 23:27	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0038	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Chloroethane	<0.0050	*	0.0050	0.0021	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Chloroform	<0.0050		0.0050	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Dibromochloromethane	<0.0050		0.0050	0.00057	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,2-Dichloroethane	<0.0050		0.0050	0.00073	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,3-Dichloropropane, Total	<0.0050		0.0050	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
2-Hexanone	<0.0050		0.0050	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Methylene Chloride	<0.0050		0.0050	0.0037	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00096	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Trichloroethene	<0.0050		0.0050	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1
Xylenes, Total	<0.0099		0.0099	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/12/16 09:20	02/17/16 17:44	1
Dibromofluoromethane	96		75 - 120	02/12/16 09:20	02/17/16 17:44	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 17:44	1
Toluene-d8 (Surr)	106		75 - 122	02/12/16 09:20	02/17/16 17:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Naphthalene	0.031	J	0.038	0.0059	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2-Methylnaphthalene	0.098		0.038	0.0070	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Fluorene	0.0077	J	0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Phenanthrene	0.083		0.038	0.0053	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Pyrene	0.037	J	0.038	0.0076	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.022	J	0.038	0.010	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
Benzo[g,h,i]perylene	0.018	J	0.038	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110	02/12/16 15:29	02/22/16 01:59	1
Phenol-d5	74		31 - 110	02/12/16 15:29	02/22/16 01:59	1
Nitrobenzene-d5	73		25 - 115	02/12/16 15:29	02/22/16 01:59	1
2-Fluorobiphenyl	70		25 - 119	02/12/16 15:29	02/22/16 01:59	1
2,4,6-Tribromophenol	85		35 - 137	02/12/16 15:29	02/22/16 01:59	1
Terphenyl-d14	154	X	36 - 134	02/12/16 15:29	02/22/16 01:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Arsenic	11	B	0.51	0.23	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Barium	40		0.51	0.093	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Beryllium	0.59		0.20	0.044	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Boron	13		2.5	0.36	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Cadmium	<0.10		0.10	0.029	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Calcium	70000	B	100	33	mg/Kg	☼	02/15/16 09:56	02/18/16 14:51	10
Chromium	16	B	0.51	0.087	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Cobalt	14		0.25	0.057	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Copper	24		0.51	0.11	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Iron	16000	B	10	3.9	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Lead	12		0.25	0.13	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Magnesium	28000		5.1	2.1	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Manganese	360	B	0.51	0.10	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Nickel	36		0.51	0.14	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Potassium	2600		25	4.1	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Sodium	240		51	6.7	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Vanadium	19		0.25	0.074	mg/Kg	☼	02/15/16 09:56	02/18/16 00:23	1
Zinc	56		10	3.2	mg/Kg	☼	02/15/16 09:56	02/18/16 14:51	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 21:33	1
Boron	0.074	J	0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 21:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:33	1
Cobalt	0.020	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:33	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 21:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 21:33	1
Manganese	2.3		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:33	1
Nickel	0.053		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 21:33	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:33	1
Zinc	0.067	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 21:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 20:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 20:07	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 20:07	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.09		0.200	0.200	SU			02/15/16 23:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

Date Collected: 02/11/16 14:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Chloroethane	<0.0043	*	0.0043	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00082	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/12/16 09:20	02/17/16 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/12/16 09:20	02/17/16 18:09	1
Dibromofluoromethane	99		75 - 120	02/12/16 09:20	02/17/16 18:09	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	02/12/16 09:20	02/17/16 18:09	1
Toluene-d8 (Surr)	104		75 - 122	02/12/16 09:20	02/17/16 18:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

Date Collected: 02/11/16 14:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Naphthalene	0.053		0.038	0.0059	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2-Methylnaphthalene	0.16		0.038	0.0070	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Fluorene	0.0084 J		0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Phenanthrene	0.092		0.038	0.0053	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Fluoranthene	0.0078 J		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Pyrene	0.044		0.038	0.0076	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Benzof[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

Date Collected: 02/11/16 14:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.028	J	0.038	0.010	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
Benzo[g,h,i]perylene	0.023	J	0.038	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/12/16 15:29	02/22/16 02:29	1
Phenol-d5	78		31 - 110	02/12/16 15:29	02/22/16 02:29	1
Nitrobenzene-d5	76		25 - 115	02/12/16 15:29	02/22/16 02:29	1
2-Fluorobiphenyl	79		25 - 119	02/12/16 15:29	02/22/16 02:29	1
2,4,6-Tribromophenol	85		35 - 137	02/12/16 15:29	02/22/16 02:29	1
Terphenyl-d14	163	X	36 - 134	02/12/16 15:29	02/22/16 02:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Arsenic	6.4	B	0.50	0.23	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Barium	43		0.50	0.091	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Beryllium	0.63		0.20	0.043	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Boron	15		2.5	0.35	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Cadmium	<0.099		0.099	0.029	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Calcium	64000	B	99	32	mg/Kg	☼	02/15/16 09:56	02/18/16 14:55	10
Chromium	18	B	0.50	0.085	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Cobalt	13		0.25	0.056	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Copper	23		0.50	0.11	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Iron	16000	B	9.9	3.8	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Lead	14		0.25	0.12	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Magnesium	23000		5.0	2.0	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Manganese	310	B	0.50	0.098	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Nickel	35		0.50	0.13	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Potassium	2800		25	4.1	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Sodium	190		50	6.6	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Thallium	0.41	J	0.50	0.24	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Vanadium	21		0.25	0.073	mg/Kg	☼	02/15/16 09:56	02/18/16 00:28	1
Zinc	55		9.9	3.1	mg/Kg	☼	02/15/16 09:56	02/18/16 14:55	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.64		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 21:55	1
Boron	0.54		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

Date Collected: 02/11/16 14:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 21:55	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:55	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:55	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 21:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 21:55	1
Manganese	2.0		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:55	1
Nickel	0.045		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 21:55	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 21:55	1
Zinc	1.2		0.50	0.020	mg/L		02/16/16 14:24	02/17/16 21:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.34		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 20:56	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 20:11	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 20:11	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0099	mg/Kg	☼	02/16/16 16:00	02/17/16 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			02/15/16 23:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0037	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Benzene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Bromodichloromethane	<0.0048		0.0048	0.00080	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Bromoform	<0.0048		0.0048	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
2-Butanone (MEK)	<0.0048		0.0048	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Carbon disulfide	<0.0048		0.0048	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Carbon tetrachloride	<0.0048		0.0048	0.0010	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Chlorobenzene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Chloroethane	<0.0048	*	0.0048	0.0020	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Chloroform	<0.0048		0.0048	0.00093	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Chloromethane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
cis-1,2-Dichloroethene	<0.0048		0.0048	0.00097	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
cis-1,3-Dichloropropene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Dibromochloromethane	<0.0048		0.0048	0.00055	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,1-Dichloroethane	<0.0048		0.0048	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,2-Dichloroethane	<0.0048		0.0048	0.00071	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,1-Dichloroethene	<0.0048		0.0048	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,2-Dichloropropane	<0.0048		0.0048	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,3-Dichloropropane, Total	<0.0048		0.0048	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Ethylbenzene	<0.0048		0.0048	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Methylene Chloride	<0.0048		0.0048	0.0036	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
4-Methyl-2-pentanone (MIBK)	<0.0048		0.0048	0.00098	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Methyl tert-butyl ether	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Styrene	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,1,2,2-Tetrachloroethane	<0.0048		0.0048	0.00076	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Tetrachloroethene	<0.0048		0.0048	0.00099	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Toluene	<0.0048		0.0048	0.0017	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
trans-1,2-Dichloroethene	<0.0048		0.0048	0.0012	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
trans-1,3-Dichloropropene	<0.0048		0.0048	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,1,1-Trichloroethane	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
1,1,2-Trichloroethane	<0.0048		0.0048	0.00092	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Trichloroethene	<0.0048		0.0048	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Vinyl acetate	<0.0048		0.0048	0.0013	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Vinyl chloride	<0.0048		0.0048	0.0011	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1
Xylenes, Total	<0.0095		0.0095	0.0018	mg/Kg	☼	02/12/16 09:20	02/17/16 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/12/16 09:20	02/17/16 18:35	1
Dibromofluoromethane	99		75 - 120	02/12/16 09:20	02/17/16 18:35	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/12/16 09:20	02/17/16 18:35	1
Toluene-d8 (Surr)	107		75 - 122	02/12/16 09:20	02/17/16 18:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Naphthalene	0.078		0.038	0.0059	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2-Methylnaphthalene	0.27		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Acenaphthylene	0.0090 J		0.038	0.0051	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Acenaphthene	0.010 J		0.038	0.0069	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Fluorene	0.0081 J		0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Phenanthrene	0.16		0.038	0.0054	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Pyrene	0.022 J		0.038	0.0077	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.034	J	0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
Benzo[g,h,i]perylene	0.014	J	0.038	0.012	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/12/16 15:29	02/22/16 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	95		25 - 110	02/12/16 15:29	02/22/16 15:17	1
Phenol-d5	100		31 - 110	02/12/16 15:29	02/22/16 15:17	1
Nitrobenzene-d5	86		25 - 115	02/12/16 15:29	02/22/16 15:17	1
2-Fluorobiphenyl	78		25 - 119	02/12/16 15:29	02/22/16 15:17	1
2,4,6-Tribromophenol	71		35 - 137	02/12/16 15:29	02/22/16 15:17	1
Terphenyl-d14	97		36 - 134	02/12/16 15:29	02/22/16 15:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Arsenic	8.0	B	0.56	0.26	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Barium	34		0.56	0.10	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Beryllium	0.65		0.22	0.048	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Boron	16		2.8	0.39	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Calcium	46000	B	110	36	mg/Kg	☼	02/15/16 09:56	02/18/16 14:59	10
Chromium	17	B	0.56	0.096	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Cobalt	15		0.28	0.063	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Copper	29		0.56	0.12	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Iron	17000	B	11	4.3	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Lead	16		0.28	0.14	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Magnesium	21000		5.6	2.3	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Manganese	300	B	0.56	0.11	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Nickel	37		0.56	0.15	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Potassium	2900		28	4.6	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Sodium	190		56	7.4	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Thallium	0.47	J	0.56	0.27	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Vanadium	19		0.28	0.081	mg/Kg	☼	02/15/16 09:56	02/18/16 00:33	1
Zinc	53		11	3.5	mg/Kg	☼	02/15/16 09:56	02/18/16 14:59	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 22:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 22:02	1
Boron	0.58		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 22:02	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 22:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 22:02	1
Cobalt	0.023	J	0.025	0.010	mg/L		02/16/16 14:24	02/17/16 22:02	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 22:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 22:02	1
Manganese	2.2		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 22:02	1
Nickel	0.056		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 22:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 22:02	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 22:02	1
Zinc	0.14	J	0.50	0.020	mg/L		02/16/16 14:24	02/17/16 22:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.44		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 21:03	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 20:15	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 20:15	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			02/16/16 00:07	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

GC/MS VOA

Prep Batch: 322954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	5035	
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	5035	
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	5035	
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	5035	
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	5035	
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	5035	
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	5035	
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	5035	
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	5035	
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	5035	
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	5035	
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	5035	
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	5035	
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	5035	
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	5035	
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	5035	
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	5035	

Analysis Batch: 323064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	8260B	322954
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	8260B	322954
LCS 500-323064/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323064/28	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323064/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 323072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	8260B	322954
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	8260B	322954
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	8260B	322954
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	8260B	322954
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	8260B	322954
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	8260B	322954
LCS 500-323072/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323072/28	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323072/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 323152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	8260B	322954
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	8260B	322954
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	8260B	322954
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	8260B	322954
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	8260B	322954
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	8260B	322954
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	8260B	322954
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	8260B	322954
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	8260B	322954
LCS 500-323152/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323152/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

GC/MS VOA (Continued)

Analysis Batch: 323152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-323152/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 322670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	3541	
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	3541	
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	3541	
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	3541	
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	3541	
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	3541	
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	3541	
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	3541	
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	3541	
500-107508-8 - DL	2746-01-B16 (0-8)	Total/NA	Solid	3541	
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	3541	
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	3541	
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	3541	
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	3541	
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	3541	
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	3541	
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	3541	
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	3541	
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	3541	
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	3541	
LCS 500-322670/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322670/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 323800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	8270D	322670
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	8270D	322670
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	8270D	322670
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	8270D	322670
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	8270D	322670
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	8270D	322670
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	8270D	322670
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	8270D	322670
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	8270D	322670
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	8270D	322670
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	8270D	322670
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	8270D	322670
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	8270D	322670
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	8270D	322670
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	8270D	322670
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	8270D	322670
LCS 500-322670/2-A	Lab Control Sample	Total/NA	Solid	8270D	322670
MB 500-322670/1-A	Method Blank	Total/NA	Solid	8270D	322670

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

GC/MS Semi VOA (Continued)

Analysis Batch: 323919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-8 - DL	2746-01-B16 (0-8)	Total/NA	Solid	8270D	322670
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	8270D	322670
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	8270D	322670
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	8270D	322670

Metals

Prep Batch: 322868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	3050B	
500-107508-1 DU	2746-01-B18 (0-8)	Total/NA	Solid	3050B	
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	3050B	
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	3050B	
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	3050B	
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	3050B	
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	3050B	
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	3050B	
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	3050B	
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	3050B	
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	3050B	
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	3050B	
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	3050B	
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	3050B	
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	3050B	
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	3050B	
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	3050B	
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	3050B	
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	3050B	
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	3050B	

Leach Batch: 322924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	TCLP	Solid	1311	
500-107508-2	2746-01-B18 (8-16)	TCLP	Solid	1311	
500-107508-2 DU	2746-01-B18 (8-16)	TCLP	Solid	1311	
500-107508-2 MS	2746-01-B18 (8-16)	TCLP	Solid	1311	
500-107508-3	2746-01-B18 (16-24)	TCLP	Solid	1311	
500-107508-3 DU	2746-01-B18 (16-24)	TCLP	Solid	1311	
500-107508-3 MS	2746-01-B18 (16-24)	TCLP	Solid	1311	
500-107508-4	2746-01-B18 (24-30)	TCLP	Solid	1311	
500-107508-5	2746-01-B18 (24-30)D	TCLP	Solid	1311	
500-107508-6	2746-01-B17 (0-8)	TCLP	Solid	1311	
500-107508-7	2746-01-B17 (8-16)	TCLP	Solid	1311	
500-107508-8	2746-01-B16 (0-8)	TCLP	Solid	1311	
500-107508-9	2746-01-B16 (8-16)	TCLP	Solid	1311	
500-107508-10	2746-01-B16 (16-24)	TCLP	Solid	1311	
500-107508-11	2746-01-B16 (24-30)	TCLP	Solid	1311	
500-107508-12	2746-01-B15 (0-8)	TCLP	Solid	1311	
500-107508-13	2746-01-B15 (8-17)	TCLP	Solid	1311	
500-107508-14	2746-01-B14 (0-8)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Metals (Continued)

Leach Batch: 322924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-15	2746-01-B14 (8-16)	TCLP	Solid	1311	
500-107508-16	2746-01-B14 (16-24)	TCLP	Solid	1311	
500-107508-17	2746-01-B14 (24-30)	TCLP	Solid	1311	
LB 500-322924/1-B	Method Blank	TCLP	Solid	1311	
LB 500-322924/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 322928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	SPLP East	Solid	1312	
500-107508-1 DU	2746-01-B18 (0-8)	SPLP East	Solid	1312	
500-107508-1 MS	2746-01-B18 (0-8)	SPLP East	Solid	1312	
500-107508-2	2746-01-B18 (8-16)	SPLP East	Solid	1312	
500-107508-3	2746-01-B18 (16-24)	SPLP East	Solid	1312	
500-107508-4	2746-01-B18 (24-30)	SPLP East	Solid	1312	
500-107508-5	2746-01-B18 (24-30)D	SPLP East	Solid	1312	
500-107508-6	2746-01-B17 (0-8)	SPLP East	Solid	1312	
500-107508-7	2746-01-B17 (8-16)	SPLP East	Solid	1312	
500-107508-8	2746-01-B16 (0-8)	SPLP East	Solid	1312	
500-107508-9	2746-01-B16 (8-16)	SPLP East	Solid	1312	
500-107508-10	2746-01-B16 (16-24)	SPLP East	Solid	1312	
500-107508-11	2746-01-B16 (24-30)	SPLP East	Solid	1312	
500-107508-12	2746-01-B15 (0-8)	SPLP East	Solid	1312	
500-107508-13	2746-01-B15 (8-17)	SPLP East	Solid	1312	
500-107508-14	2746-01-B14 (0-8)	SPLP East	Solid	1312	
500-107508-15	2746-01-B14 (8-16)	SPLP East	Solid	1312	
500-107508-16	2746-01-B14 (16-24)	SPLP East	Solid	1312	
500-107508-17	2746-01-B14 (24-30)	SPLP East	Solid	1312	
LB 500-322928/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 323061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	7471B	
500-107508-1 DU	2746-01-B18 (0-8)	Total/NA	Solid	7471B	
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	7471B	
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	7471B	
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	7471B	
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	7471B	
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	7471B	
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	7471B	
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	7471B	
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	7471B	
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	7471B	
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	7471B	
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	7471B	
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	7471B	
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	7471B	
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	7471B	
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	7471B	
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	7471B	
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	7471B	
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Metals (Continued)

Prep Batch: 323061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-323061/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-323061/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 323068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	TCLP	Solid	3010A	322924
500-107508-2	2746-01-B18 (8-16)	TCLP	Solid	3010A	322924
500-107508-3	2746-01-B18 (16-24)	TCLP	Solid	3010A	322924
500-107508-3 DU	2746-01-B18 (16-24)	TCLP	Solid	3010A	322924
500-107508-3 MS	2746-01-B18 (16-24)	TCLP	Solid	3010A	322924
500-107508-4	2746-01-B18 (24-30)	TCLP	Solid	3010A	322924
500-107508-5	2746-01-B18 (24-30)D	TCLP	Solid	3010A	322924
500-107508-6	2746-01-B17 (0-8)	TCLP	Solid	3010A	322924
500-107508-7	2746-01-B17 (8-16)	TCLP	Solid	3010A	322924
500-107508-8	2746-01-B16 (0-8)	TCLP	Solid	3010A	322924
500-107508-9	2746-01-B16 (8-16)	TCLP	Solid	3010A	322924
500-107508-10	2746-01-B16 (16-24)	TCLP	Solid	3010A	322924
500-107508-11	2746-01-B16 (24-30)	TCLP	Solid	3010A	322924
500-107508-12	2746-01-B15 (0-8)	TCLP	Solid	3010A	322924
500-107508-13	2746-01-B15 (8-17)	TCLP	Solid	3010A	322924
500-107508-14	2746-01-B14 (0-8)	TCLP	Solid	3010A	322924
500-107508-15	2746-01-B14 (8-16)	TCLP	Solid	3010A	322924
500-107508-16	2746-01-B14 (16-24)	TCLP	Solid	3010A	322924
500-107508-17	2746-01-B14 (24-30)	TCLP	Solid	3010A	322924
LB 500-322924/1-B	Method Blank	TCLP	Solid	3010A	322924
LCS 500-323068/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 323071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	SPLP East	Solid	3010A	322928
500-107508-1 DU	2746-01-B18 (0-8)	SPLP East	Solid	3010A	322928
500-107508-1 MS	2746-01-B18 (0-8)	SPLP East	Solid	3010A	322928
500-107508-2	2746-01-B18 (8-16)	SPLP East	Solid	3010A	322928
500-107508-3	2746-01-B18 (16-24)	SPLP East	Solid	3010A	322928
500-107508-4	2746-01-B18 (24-30)	SPLP East	Solid	3010A	322928
500-107508-5	2746-01-B18 (24-30)D	SPLP East	Solid	3010A	322928
500-107508-6	2746-01-B17 (0-8)	SPLP East	Solid	3010A	322928
500-107508-7	2746-01-B17 (8-16)	SPLP East	Solid	3010A	322928
500-107508-8	2746-01-B16 (0-8)	SPLP East	Solid	3010A	322928
500-107508-9	2746-01-B16 (8-16)	SPLP East	Solid	3010A	322928
500-107508-10	2746-01-B16 (16-24)	SPLP East	Solid	3010A	322928
500-107508-11	2746-01-B16 (24-30)	SPLP East	Solid	3010A	322928
500-107508-12	2746-01-B15 (0-8)	SPLP East	Solid	3010A	322928
500-107508-13	2746-01-B15 (8-17)	SPLP East	Solid	3010A	322928
500-107508-14	2746-01-B14 (0-8)	SPLP East	Solid	3010A	322928
500-107508-15	2746-01-B14 (8-16)	SPLP East	Solid	3010A	322928
500-107508-16	2746-01-B14 (16-24)	SPLP East	Solid	3010A	322928
500-107508-17	2746-01-B14 (24-30)	SPLP East	Solid	3010A	322928
LB 500-322928/1-B	Method Blank	SPLP East	Solid	3010A	322928
LCS 500-323071/2-A	Lab Control Sample	Total/NA	Solid	3010A	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Metals (Continued)

Prep Batch: 323217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	TCLP	Solid	7470A	322924
500-107508-2	2746-01-B18 (8-16)	TCLP	Solid	7470A	322924
500-107508-2 DU	2746-01-B18 (8-16)	TCLP	Solid	7470A	322924
500-107508-2 MS	2746-01-B18 (8-16)	TCLP	Solid	7470A	322924
500-107508-3	2746-01-B18 (16-24)	TCLP	Solid	7470A	322924
500-107508-4	2746-01-B18 (24-30)	TCLP	Solid	7470A	322924
500-107508-5	2746-01-B18 (24-30)D	TCLP	Solid	7470A	322924
500-107508-6	2746-01-B17 (0-8)	TCLP	Solid	7470A	322924
500-107508-7	2746-01-B17 (8-16)	TCLP	Solid	7470A	322924
500-107508-8	2746-01-B16 (0-8)	TCLP	Solid	7470A	322924
500-107508-9	2746-01-B16 (8-16)	TCLP	Solid	7470A	322924
500-107508-10	2746-01-B16 (16-24)	TCLP	Solid	7470A	322924
500-107508-11	2746-01-B16 (24-30)	TCLP	Solid	7470A	322924
500-107508-12	2746-01-B15 (0-8)	TCLP	Solid	7470A	322924
500-107508-13	2746-01-B15 (8-17)	TCLP	Solid	7470A	322924
500-107508-14	2746-01-B14 (0-8)	TCLP	Solid	7470A	322924
500-107508-15	2746-01-B14 (8-16)	TCLP	Solid	7470A	322924
500-107508-16	2746-01-B14 (16-24)	TCLP	Solid	7470A	322924
500-107508-17	2746-01-B14 (24-30)	TCLP	Solid	7470A	322924
LB 500-322924/1-C	Method Blank	TCLP	Solid	7470A	322924
LCS 500-323217/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-323217/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 323274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	7471B	323061
500-107508-1 DU	2746-01-B18 (0-8)	Total/NA	Solid	7471B	323061
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	7471B	323061
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	7471B	323061
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	7471B	323061
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	7471B	323061
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	7471B	323061
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	7471B	323061
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	7471B	323061
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	7471B	323061
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	7471B	323061
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	7471B	323061
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	7471B	323061
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	7471B	323061
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	7471B	323061
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	7471B	323061
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	7471B	323061
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	7471B	323061
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	7471B	323061
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	7471B	323061
LCS 500-323061/13-A	Lab Control Sample	Total/NA	Solid	7471B	323061
MB 500-323061/12-A	Method Blank	Total/NA	Solid	7471B	323061

Analysis Batch: 323339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Metals (Continued)

Analysis Batch: 323339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1 DU	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	6010B	322868
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	6010B	322868
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	6010B	322868
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	6010B	322868
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	6010B	322868
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	6010B	322868
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	6010B	322868
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	6010B	322868
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	6010B	322868
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	6010B	322868
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	6010B	322868
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	6010B	322868
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	6010B	322868
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	6010B	322868
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	6010B	322868
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	6010B	322868

Analysis Batch: 323340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	TCLP	Solid	6010B	323068
500-107508-2	2746-01-B18 (8-16)	TCLP	Solid	6010B	323068
500-107508-3	2746-01-B18 (16-24)	TCLP	Solid	6010B	323068
500-107508-3 DU	2746-01-B18 (16-24)	TCLP	Solid	6010B	323068
500-107508-3 MS	2746-01-B18 (16-24)	TCLP	Solid	6010B	323068
500-107508-4	2746-01-B18 (24-30)	TCLP	Solid	6010B	323068
500-107508-5	2746-01-B18 (24-30)D	TCLP	Solid	6010B	323068
500-107508-6	2746-01-B17 (0-8)	TCLP	Solid	6010B	323068
500-107508-7	2746-01-B17 (8-16)	TCLP	Solid	6010B	323068
500-107508-8	2746-01-B16 (0-8)	TCLP	Solid	6010B	323068
500-107508-9	2746-01-B16 (8-16)	TCLP	Solid	6010B	323068
500-107508-10	2746-01-B16 (16-24)	TCLP	Solid	6010B	323068
500-107508-11	2746-01-B16 (24-30)	TCLP	Solid	6010B	323068
500-107508-12	2746-01-B15 (0-8)	TCLP	Solid	6010B	323068
500-107508-13	2746-01-B15 (8-17)	TCLP	Solid	6010B	323068
500-107508-14	2746-01-B14 (0-8)	TCLP	Solid	6010B	323068
500-107508-15	2746-01-B14 (8-16)	TCLP	Solid	6010B	323068
500-107508-16	2746-01-B14 (16-24)	TCLP	Solid	6010B	323068
500-107508-17	2746-01-B14 (24-30)	TCLP	Solid	6010B	323068
LB 500-322924/1-B	Method Blank	TCLP	Solid	6010B	323068
LCS 500-323068/2-A	Lab Control Sample	Total/NA	Solid	6010B	323068

Analysis Batch: 323369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	TCLP	Solid	6020A	323068
500-107508-2	2746-01-B18 (8-16)	TCLP	Solid	6020A	323068
500-107508-3	2746-01-B18 (16-24)	TCLP	Solid	6020A	323068
500-107508-3 DU	2746-01-B18 (16-24)	TCLP	Solid	6020A	323068
500-107508-3 MS	2746-01-B18 (16-24)	TCLP	Solid	6020A	323068

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Metals (Continued)

Analysis Batch: 323369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-4	2746-01-B18 (24-30)	TCLP	Solid	6020A	323068
500-107508-5	2746-01-B18 (24-30)D	TCLP	Solid	6020A	323068
500-107508-6	2746-01-B17 (0-8)	TCLP	Solid	6020A	323068
500-107508-7	2746-01-B17 (8-16)	TCLP	Solid	6020A	323068
500-107508-8	2746-01-B16 (0-8)	TCLP	Solid	6020A	323068
500-107508-9	2746-01-B16 (8-16)	TCLP	Solid	6020A	323068
500-107508-10	2746-01-B16 (16-24)	TCLP	Solid	6020A	323068
500-107508-11	2746-01-B16 (24-30)	TCLP	Solid	6020A	323068
500-107508-12	2746-01-B15 (0-8)	TCLP	Solid	6020A	323068
500-107508-13	2746-01-B15 (8-17)	TCLP	Solid	6020A	323068
500-107508-14	2746-01-B14 (0-8)	TCLP	Solid	6020A	323068
500-107508-15	2746-01-B14 (8-16)	TCLP	Solid	6020A	323068
500-107508-16	2746-01-B14 (16-24)	TCLP	Solid	6020A	323068
500-107508-17	2746-01-B14 (24-30)	TCLP	Solid	6020A	323068
LB 500-322924/1-B	Method Blank	TCLP	Solid	6020A	323068
LCS 500-323068/2-A	Lab Control Sample	Total/NA	Solid	6020A	323068

Analysis Batch: 323440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	TCLP	Solid	7470A	323217
500-107508-2	2746-01-B18 (8-16)	TCLP	Solid	7470A	323217
500-107508-2 DU	2746-01-B18 (8-16)	TCLP	Solid	7470A	323217
500-107508-2 MS	2746-01-B18 (8-16)	TCLP	Solid	7470A	323217
500-107508-3	2746-01-B18 (16-24)	TCLP	Solid	7470A	323217
500-107508-4	2746-01-B18 (24-30)	TCLP	Solid	7470A	323217
500-107508-5	2746-01-B18 (24-30)D	TCLP	Solid	7470A	323217
500-107508-6	2746-01-B17 (0-8)	TCLP	Solid	7470A	323217
500-107508-7	2746-01-B17 (8-16)	TCLP	Solid	7470A	323217
500-107508-8	2746-01-B16 (0-8)	TCLP	Solid	7470A	323217
500-107508-9	2746-01-B16 (8-16)	TCLP	Solid	7470A	323217
500-107508-10	2746-01-B16 (16-24)	TCLP	Solid	7470A	323217
500-107508-11	2746-01-B16 (24-30)	TCLP	Solid	7470A	323217
500-107508-12	2746-01-B15 (0-8)	TCLP	Solid	7470A	323217
500-107508-13	2746-01-B15 (8-17)	TCLP	Solid	7470A	323217
500-107508-14	2746-01-B14 (0-8)	TCLP	Solid	7470A	323217
500-107508-15	2746-01-B14 (8-16)	TCLP	Solid	7470A	323217
500-107508-16	2746-01-B14 (16-24)	TCLP	Solid	7470A	323217
500-107508-17	2746-01-B14 (24-30)	TCLP	Solid	7470A	323217
LB 500-322924/1-C	Method Blank	TCLP	Solid	7470A	323217
LCS 500-323217/13-A	Lab Control Sample	Total/NA	Solid	7470A	323217
MB 500-323217/12-A	Method Blank	Total/NA	Solid	7470A	323217

Analysis Batch: 323522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-1 DU	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-1 MS	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-1 MSD	2746-01-B18 (0-8)	Total/NA	Solid	6010B	322868
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	6010B	322868
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	6010B	322868
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	6010B	322868

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Metals (Continued)

Analysis Batch: 323522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	6010B	322868
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	6010B	322868
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	6010B	322868
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	6010B	322868
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	6010B	322868
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	6010B	322868
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	6010B	322868
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	6010B	322868
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	6010B	322868
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	6010B	322868
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	6010B	322868
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	6010B	322868
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	6010B	322868

Analysis Batch: 323563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	SPLP East	Solid	6010B	323071
500-107508-1 DU	2746-01-B18 (0-8)	SPLP East	Solid	6010B	323071
500-107508-1 MS	2746-01-B18 (0-8)	SPLP East	Solid	6010B	323071
500-107508-2	2746-01-B18 (8-16)	SPLP East	Solid	6010B	323071
500-107508-3	2746-01-B18 (16-24)	SPLP East	Solid	6010B	323071
500-107508-4	2746-01-B18 (24-30)	SPLP East	Solid	6010B	323071
500-107508-5	2746-01-B18 (24-30)D	SPLP East	Solid	6010B	323071
500-107508-6	2746-01-B17 (0-8)	SPLP East	Solid	6010B	323071
500-107508-7	2746-01-B17 (8-16)	SPLP East	Solid	6010B	323071
500-107508-8	2746-01-B16 (0-8)	SPLP East	Solid	6010B	323071
500-107508-9	2746-01-B16 (8-16)	SPLP East	Solid	6010B	323071
500-107508-10	2746-01-B16 (16-24)	SPLP East	Solid	6010B	323071
500-107508-11	2746-01-B16 (24-30)	SPLP East	Solid	6010B	323071
500-107508-12	2746-01-B15 (0-8)	SPLP East	Solid	6010B	323071
500-107508-13	2746-01-B15 (8-17)	SPLP East	Solid	6010B	323071
500-107508-14	2746-01-B14 (0-8)	SPLP East	Solid	6010B	323071
500-107508-15	2746-01-B14 (8-16)	SPLP East	Solid	6010B	323071
500-107508-16	2746-01-B14 (16-24)	SPLP East	Solid	6010B	323071
500-107508-17	2746-01-B14 (24-30)	SPLP East	Solid	6010B	323071
LB 500-322928/1-B	Method Blank	SPLP East	Solid	6010B	323071
LCS 500-323071/2-A	Lab Control Sample	Total/NA	Solid	6010B	323071

General Chemistry

Analysis Batch: 322637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	Moisture	
500-107508-1 DU	2746-01-B18 (0-8)	Total/NA	Solid	Moisture	
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	Moisture	
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	Moisture	
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	Moisture	
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	Moisture	
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	Moisture	
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

General Chemistry (Continued)

Analysis Batch: 322637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	Moisture	
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	Moisture	
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	Moisture	
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	Moisture	
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	Moisture	
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	Moisture	
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	Moisture	
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	Moisture	
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	Moisture	
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	Moisture	

Analysis Batch: 322930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107508-1	2746-01-B18 (0-8)	Total/NA	Solid	9045D	
500-107508-2	2746-01-B18 (8-16)	Total/NA	Solid	9045D	
500-107508-3	2746-01-B18 (16-24)	Total/NA	Solid	9045D	
500-107508-4	2746-01-B18 (24-30)	Total/NA	Solid	9045D	
500-107508-5	2746-01-B18 (24-30)D	Total/NA	Solid	9045D	
500-107508-6	2746-01-B17 (0-8)	Total/NA	Solid	9045D	
500-107508-7	2746-01-B17 (8-16)	Total/NA	Solid	9045D	
500-107508-7 DU	2746-01-B17 (8-16)	Total/NA	Solid	9045D	
500-107508-8	2746-01-B16 (0-8)	Total/NA	Solid	9045D	
500-107508-9	2746-01-B16 (8-16)	Total/NA	Solid	9045D	
500-107508-10	2746-01-B16 (16-24)	Total/NA	Solid	9045D	
500-107508-11	2746-01-B16 (24-30)	Total/NA	Solid	9045D	
500-107508-12	2746-01-B15 (0-8)	Total/NA	Solid	9045D	
500-107508-13	2746-01-B15 (8-17)	Total/NA	Solid	9045D	
500-107508-14	2746-01-B14 (0-8)	Total/NA	Solid	9045D	
500-107508-15	2746-01-B14 (8-16)	Total/NA	Solid	9045D	
500-107508-16	2746-01-B14 (16-24)	Total/NA	Solid	9045D	
500-107508-17	2746-01-B14 (24-30)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-107508-1	2746-01-B18 (0-8)	93	97	89	104
500-107508-2	2746-01-B18 (8-16)	89	98	89	107
500-107508-3	2746-01-B18 (16-24)	93	97	87	108
500-107508-4	2746-01-B18 (24-30)	91	94	88	107
500-107508-5	2746-01-B18 (24-30)D	89	96	87	106
500-107508-6	2746-01-B17 (0-8)	93	97	89	104
500-107508-7	2746-01-B17 (8-16)	98	107	110	110
500-107508-8	2746-01-B16 (0-8)	92	93	88	102
500-107508-9	2746-01-B16 (8-16)	95	108	114	109
500-107508-10	2746-01-B16 (16-24)	95	99	90	107
500-107508-11	2746-01-B16 (24-30)	87	94	87	108
500-107508-12	2746-01-B15 (0-8)	92	96	87	102
500-107508-13	2746-01-B15 (8-17)	92	96	90	105
500-107508-14	2746-01-B14 (0-8)	89	93	87	104
500-107508-15	2746-01-B14 (8-16)	92	96	87	106
500-107508-16	2746-01-B14 (16-24)	90	99	95	104
500-107508-17	2746-01-B14 (24-30)	91	99	87	107
LCS 500-323064/3	Lab Control Sample	103	102	100	112
LCS 500-323072/3	Lab Control Sample	94	89	81	105
LCS 500-323152/4	Lab Control Sample	99	91	79	107
LCSD 500-323064/28	Lab Control Sample Dup	105	106	104	111
LCSD 500-323072/28	Lab Control Sample Dup	100	91	79	106
LCSD 500-323152/5	Lab Control Sample Dup	97	91	81	105
MB 500-323064/4	Method Blank	100	101	111	112
MB 500-323072/4	Method Blank	95	92	82	103
MB 500-323152/6	Method Blank	94	91	82	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107508-1	2746-01-B18 (0-8)	63	67	55	61	72	84
500-107508-1 MS	2746-01-B18 (0-8)	69	65	65	68	98	160 X
500-107508-1 MSD	2746-01-B18 (0-8)	54	52	51	57	91	136 X
500-107508-2	2746-01-B18 (8-16)	77	75	74	71	76	85
500-107508-3	2746-01-B18 (16-24)	90	87	86	81	93	113
500-107508-4	2746-01-B18 (24-30)	81	82	78	81	80	115
500-107508-5	2746-01-B18 (24-30)D	74	71	72	74	75	121
500-107508-6	2746-01-B17 (0-8)	82	77	77	77	84	118
500-107508-7	2746-01-B17 (8-16)	64	66	60	65	80	110
500-107508-8	2746-01-B16 (0-8)	71	73	66	70	75	124

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
		(25-110)	(31-110)	(25-115)	(25-119)	(35-137)	(36-134)
500-107508-8 - DL	2746-01-B16 (0-8)	86	90	78	80	62	131
500-107508-9	2746-01-B16 (8-16)	73	70	70	76	89	140 X
500-107508-10	2746-01-B16 (16-24)	70	71	66	69	77	131
500-107508-11	2746-01-B16 (24-30)	77	78	73	77	83	156 X
500-107508-12	2746-01-B15 (0-8)	90	92	82	73	70	87
500-107508-13	2746-01-B15 (8-17)	73	76	71	73	83	149 X
500-107508-14	2746-01-B14 (0-8)	97	99	87	80	87	96
500-107508-15	2746-01-B14 (8-16)	74	74	73	70	85	154 X
500-107508-16	2746-01-B14 (16-24)	77	78	76	79	85	163 X
500-107508-17	2746-01-B14 (24-30)	95	100	86	78	71	97
LCS 500-322670/2-A	Lab Control Sample	84	82	86	84	101	90
MB 500-322670/1-A	Method Blank	87	84	86	86	71	101

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-323064/4

Matrix: Solid

Analysis Batch: 323064

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 21:41	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:41	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 21:41	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:41	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 21:41	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 21:41	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:41	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 21:41	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 21:41	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:41	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:41	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:41	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 21:41	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 21:41	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 21:41	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:41	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 21:41	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:41	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:41	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 21:41	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:41	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:41	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:41	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 21:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		02/16/16 21:41	1
Dibromofluoromethane	101		75 - 120		02/16/16 21:41	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		02/16/16 21:41	1
Toluene-d8 (Surr)	112		75 - 122		02/16/16 21:41	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323064/3

Matrix: Solid

Analysis Batch: 323064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0426		mg/Kg		85	50 - 133
Benzene	0.0500	0.0483		mg/Kg		97	70 - 120
Bromodichloromethane	0.0500	0.0437		mg/Kg		87	69 - 120
Bromoform	0.0500	0.0392		mg/Kg		78	51 - 127
Bromomethane	0.0500	0.0398		mg/Kg		80	69 - 120
2-Butanone (MEK)	0.0500	0.0458		mg/Kg		92	50 - 148
Carbon disulfide	0.0500	0.0420		mg/Kg		84	58 - 120
Carbon tetrachloride	0.0500	0.0436		mg/Kg		87	51 - 124
Chlorobenzene	0.0500	0.0502		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0480		mg/Kg		96	49 - 125
Chloroform	0.0500	0.0477		mg/Kg		95	70 - 120
Chloromethane	0.0500	0.0525		mg/Kg		105	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0476		mg/Kg		95	70 - 120
Dibromochloromethane	0.0500	0.0434		mg/Kg		87	69 - 126
1,1-Dichloroethane	0.0500	0.0487		mg/Kg		97	70 - 120
1,2-Dichloroethane	0.0500	0.0477		mg/Kg		95	70 - 128
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	67 - 120
1,2-Dichloropropane	0.0500	0.0485		mg/Kg		97	70 - 120
Ethylbenzene	0.0500	0.0499		mg/Kg		100	70 - 120
2-Hexanone	0.0500	0.0540		mg/Kg		108	50 - 150
Methylene Chloride	0.0500	0.0487		mg/Kg		97	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0549		mg/Kg		110	50 - 150
Methyl tert-butyl ether	0.0500	0.0470		mg/Kg		94	70 - 120
Styrene	0.0500	0.0484		mg/Kg		97	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0457		mg/Kg		91	70 - 133
Tetrachloroethene	0.0500	0.0501		mg/Kg		100	70 - 120
Toluene	0.0500	0.0492		mg/Kg		98	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0447		mg/Kg		89	70 - 120
1,1,1-Trichloroethane	0.0500	0.0445		mg/Kg		89	70 - 120
1,1,2-Trichloroethane	0.0500	0.0476		mg/Kg		95	70 - 120
Trichloroethene	0.0500	0.0481		mg/Kg		96	70 - 120
Vinyl acetate	0.0500	0.0695		mg/Kg		139	60 - 150
Vinyl chloride	0.0500	0.0474		mg/Kg		95	69 - 120
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	100		70 - 134
Toluene-d8 (Surr)	112		75 - 122

Lab Sample ID: LCSD 500-323064/28

Matrix: Solid

Analysis Batch: 323064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0553		mg/Kg		111	50 - 133	26	30
Benzene	0.0500	0.0520		mg/Kg		104	70 - 120	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323064/28
Matrix: Solid
Analysis Batch: 323064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0476		mg/Kg		95	69 - 120	9	30
Bromoform	0.0500	0.0434		mg/Kg		87	51 - 127	10	30
Bromomethane	0.0500	0.0465		mg/Kg		93	69 - 120	15	30
2-Butanone (MEK)	0.0500	0.0651	*	mg/Kg		130	50 - 148	35	30
Carbon disulfide	0.0500	0.0463		mg/Kg		93	58 - 120	10	30
Carbon tetrachloride	0.0500	0.0476		mg/Kg		95	51 - 124	9	30
Chlorobenzene	0.0500	0.0525		mg/Kg		105	70 - 120	5	30
Chloroethane	0.0500	0.0497		mg/Kg		99	49 - 125	4	30
Chloroform	0.0500	0.0519		mg/Kg		104	70 - 120	9	30
Chloromethane	0.0500	0.0587		mg/Kg		117	63 - 126	11	30
cis-1,2-Dichloroethene	0.0500	0.0504		mg/Kg		101	70 - 120	6	30
Dibromochloromethane	0.0500	0.0483		mg/Kg		97	69 - 126	11	30
1,1-Dichloroethane	0.0500	0.0535		mg/Kg		107	70 - 120	9	30
1,2-Dichloroethane	0.0500	0.0510		mg/Kg		102	70 - 128	7	30
1,1-Dichloroethene	0.0500	0.0521		mg/Kg		104	67 - 120	10	30
1,2-Dichloropropane	0.0500	0.0522		mg/Kg		104	70 - 120	7	30
Ethylbenzene	0.0500	0.0521		mg/Kg		104	70 - 120	4	30
2-Hexanone	0.0500	0.0624		mg/Kg		125	50 - 150	14	30
Methylene Chloride	0.0500	0.0539		mg/Kg		108	70 - 120	10	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0625		mg/Kg		125	50 - 150	13	30
Methyl tert-butyl ether	0.0500	0.0512		mg/Kg		102	70 - 120	9	30
Styrene	0.0500	0.0503		mg/Kg		101	70 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0507		mg/Kg		101	70 - 133	10	30
Tetrachloroethene	0.0500	0.0514		mg/Kg		103	70 - 120	3	30
Toluene	0.0500	0.0525		mg/Kg		105	70 - 120	6	30
trans-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 120	12	30
1,1,1-Trichloroethane	0.0500	0.0480		mg/Kg		96	70 - 120	8	30
1,1,2-Trichloroethane	0.0500	0.0510		mg/Kg		102	70 - 120	7	30
Trichloroethene	0.0500	0.0532		mg/Kg		106	70 - 120	10	30
Vinyl acetate	0.0500	0.0738		mg/Kg		148	60 - 150	6	30
Vinyl chloride	0.0500	0.0556		mg/Kg		111	69 - 120	16	30
Xylenes, Total	0.100	0.106		mg/Kg		106	70 - 120	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 122
Dibromofluoromethane	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	111		75 - 122

Lab Sample ID: MB 500-323072/4
Matrix: Solid
Analysis Batch: 323072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/16/16 21:56	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:56	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/16/16 21:56	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-323072/4
Matrix: Solid
Analysis Batch: 323072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:56	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/16/16 21:56	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/16/16 21:56	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/16/16 21:56	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/16/16 21:56	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/16/16 21:56	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/16/16 21:56	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:56	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:56	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/16/16 21:56	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/16/16 21:56	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/16/16 21:56	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/16/16 21:56	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/16/16 21:56	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:56	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:56	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/16/16 21:56	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/16/16 21:56	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/16/16 21:56	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/16/16 21:56	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/16/16 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		02/16/16 21:56	1
Dibromofluoromethane	92		75 - 120		02/16/16 21:56	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		02/16/16 21:56	1
Toluene-d8 (Surr)	103		75 - 122		02/16/16 21:56	1

Lab Sample ID: LCS 500-323072/3
Matrix: Solid
Analysis Batch: 323072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0566		mg/Kg		113	50 - 133
Benzene	0.0500	0.0553		mg/Kg		111	70 - 120
Bromodichloromethane	0.0500	0.0465		mg/Kg		93	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323072/3

Matrix: Solid

Analysis Batch: 323072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0431		mg/Kg		86	51 - 127
Bromomethane	0.0500	0.0399		mg/Kg		80	69 - 120
2-Butanone (MEK)	0.0500	0.0599		mg/Kg		120	50 - 148
Carbon disulfide	0.0500	0.0496		mg/Kg		99	58 - 120
Carbon tetrachloride	0.0500	0.0406		mg/Kg		81	51 - 124
Chlorobenzene	0.0500	0.0491		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0655	*	mg/Kg		131	49 - 125
Chloroform	0.0500	0.0489		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0558		mg/Kg		112	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 120
Dibromochloromethane	0.0500	0.0466		mg/Kg		93	69 - 126
1,1-Dichloroethane	0.0500	0.0497		mg/Kg		99	70 - 120
1,2-Dichloroethane	0.0500	0.0409		mg/Kg		82	70 - 128
1,1-Dichloroethene	0.0500	0.0460		mg/Kg		92	67 - 120
1,2-Dichloropropane	0.0500	0.0527		mg/Kg		105	70 - 120
Ethylbenzene	0.0500	0.0515		mg/Kg		103	70 - 120
2-Hexanone	0.0500	0.0574		mg/Kg		115	50 - 150
Methylene Chloride	0.0500	0.0523		mg/Kg		105	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0604		mg/Kg		121	50 - 150
Methyl tert-butyl ether	0.0500	0.0491		mg/Kg		98	70 - 120
Styrene	0.0500	0.0522		mg/Kg		104	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0553		mg/Kg		111	70 - 133
Tetrachloroethene	0.0500	0.0454		mg/Kg		91	70 - 120
Toluene	0.0500	0.0524		mg/Kg		105	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 120
1,1,1-Trichloroethane	0.0500	0.0434		mg/Kg		87	70 - 120
1,1,2-Trichloroethane	0.0500	0.0502		mg/Kg		100	70 - 120
Trichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120
Vinyl acetate	0.0500	0.0537		mg/Kg		107	60 - 150
Vinyl chloride	0.0500	0.0478		mg/Kg		96	69 - 120
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 122
Dibromofluoromethane	89		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	105		75 - 122

Lab Sample ID: LCSD 500-323072/28

Matrix: Solid

Analysis Batch: 323072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0615		mg/Kg		123	50 - 133	8	30
Benzene	0.0500	0.0562		mg/Kg		112	70 - 120	2	30
Bromodichloromethane	0.0500	0.0482		mg/Kg		96	69 - 120	4	30
Bromoform	0.0500	0.0455		mg/Kg		91	51 - 127	6	30
Bromomethane	0.0500	0.0406		mg/Kg		81	69 - 120	2	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323072/28
Matrix: Solid
Analysis Batch: 323072

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0587		mg/Kg		117	50 - 148	2	30
Carbon disulfide	0.0500	0.0494		mg/Kg		99	58 - 120	0	30
Carbon tetrachloride	0.0500	0.0399		mg/Kg		80	51 - 124	2	30
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120	1	30
Chloroethane	0.0500	0.0390	*	mg/Kg		78	49 - 125	51	30
Chloroform	0.0500	0.0499		mg/Kg		100	70 - 120	2	30
Chloromethane	0.0500	0.0553		mg/Kg		111	63 - 126	1	30
cis-1,2-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 120	0	30
Dibromochloromethane	0.0500	0.0477		mg/Kg		95	69 - 126	2	30
1,1-Dichloroethane	0.0500	0.0508		mg/Kg		102	70 - 120	2	30
1,2-Dichloroethane	0.0500	0.0424		mg/Kg		85	70 - 128	4	30
1,1-Dichloroethene	0.0500	0.0467		mg/Kg		93	67 - 120	2	30
1,2-Dichloropropane	0.0500	0.0536		mg/Kg		107	70 - 120	2	30
Ethylbenzene	0.0500	0.0528		mg/Kg		106	70 - 120	2	30
2-Hexanone	0.0500	0.0565		mg/Kg		113	50 - 150	2	30
Methylene Chloride	0.0500	0.0543		mg/Kg		109	70 - 120	4	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0586		mg/Kg		117	50 - 150	3	30
Methyl tert-butyl ether	0.0500	0.0485		mg/Kg		97	70 - 120	1	30
Styrene	0.0500	0.0536		mg/Kg		107	70 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0533		mg/Kg		107	70 - 133	4	30
Tetrachloroethene	0.0500	0.0454		mg/Kg		91	70 - 120	0	30
Toluene	0.0500	0.0533		mg/Kg		107	70 - 120	2	30
trans-1,2-Dichloroethene	0.0500	0.0478		mg/Kg		96	70 - 120	0	30
1,1,1-Trichloroethane	0.0500	0.0417		mg/Kg		83	70 - 120	4	30
1,1,2-Trichloroethane	0.0500	0.0514		mg/Kg		103	70 - 120	2	30
Trichloroethene	0.0500	0.0499		mg/Kg		100	70 - 120	1	30
Vinyl acetate	0.0500	0.0483		mg/Kg		97	60 - 150	11	30
Vinyl chloride	0.0500	0.0485		mg/Kg		97	69 - 120	1	30
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	106		75 - 122

Lab Sample ID: MB 500-323152/6
Matrix: Solid
Analysis Batch: 323152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/17/16 10:53	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 10:53	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/17/16 10:53	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-323152/6
Matrix: Solid
Analysis Batch: 323152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 10:53	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/17/16 10:53	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/17/16 10:53	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 10:53	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/17/16 10:53	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/17/16 10:53	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 10:53	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 10:53	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 10:53	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/17/16 10:53	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/17/16 10:53	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/17/16 10:53	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 10:53	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/17/16 10:53	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 10:53	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 10:53	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/17/16 10:53	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 10:53	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 10:53	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 10:53	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/17/16 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		02/17/16 10:53	1
Dibromofluoromethane	91		75 - 120		02/17/16 10:53	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		02/17/16 10:53	1
Toluene-d8 (Surr)	102		75 - 122		02/17/16 10:53	1

Lab Sample ID: LCS 500-323152/4
Matrix: Solid
Analysis Batch: 323152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0482		mg/Kg		96	50 - 133
Benzene	0.0500	0.0570		mg/Kg		114	70 - 120
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	69 - 120
Bromoform	0.0500	0.0422		mg/Kg		84	51 - 127
Bromomethane	0.0500	0.0348		mg/Kg		70	69 - 120
2-Butanone (MEK)	0.0500	0.0482		mg/Kg		96	50 - 148

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323152/4

Matrix: Solid

Analysis Batch: 323152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	0.0500	0.0515		mg/Kg		103	58 - 120
Carbon tetrachloride	0.0500	0.0422		mg/Kg		84	51 - 124
Chlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0377		mg/Kg		75	49 - 125
Chloroform	0.0500	0.0493		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0528		mg/Kg		106	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0505		mg/Kg		101	70 - 120
Dibromochloromethane	0.0500	0.0457		mg/Kg		91	69 - 126
1,1-Dichloroethane	0.0500	0.0514		mg/Kg		103	70 - 120
1,2-Dichloroethane	0.0500	0.0407		mg/Kg		81	70 - 128
1,1-Dichloroethene	0.0500	0.0482		mg/Kg		96	67 - 120
1,2-Dichloropropane	0.0500	0.0530		mg/Kg		106	70 - 120
Ethylbenzene	0.0500	0.0536		mg/Kg		107	70 - 120
2-Hexanone	0.0500	0.0467		mg/Kg		93	50 - 150
Methylene Chloride	0.0500	0.0534		mg/Kg		107	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0474		mg/Kg		95	50 - 150
Methyl tert-butyl ether	0.0500	0.0480		mg/Kg		96	70 - 120
Styrene	0.0500	0.0532		mg/Kg		106	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0528		mg/Kg		106	70 - 133
Tetrachloroethene	0.0500	0.0477		mg/Kg		95	70 - 120
Toluene	0.0500	0.0530		mg/Kg		106	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
1,1,1-Trichloroethane	0.0500	0.0444		mg/Kg		89	70 - 120
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	70 - 120
Trichloroethene	0.0500	0.0513		mg/Kg		103	70 - 120
Vinyl acetate	0.0500	0.0575		mg/Kg		115	60 - 150
Vinyl chloride	0.0500	0.0459		mg/Kg		92	69 - 120
Xylenes, Total	0.100	0.103		mg/Kg		103	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Lab Sample ID: LCSD 500-323152/5

Matrix: Solid

Analysis Batch: 323152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0592		mg/Kg		118	50 - 133	21	30
Benzene	0.0500	0.0542		mg/Kg		108	70 - 120	5	30
Bromodichloromethane	0.0500	0.0457		mg/Kg		91	69 - 120	3	30
Bromoform	0.0500	0.0432		mg/Kg		86	51 - 127	2	30
Bromomethane	0.0500	0.0387		mg/Kg		77	69 - 120	11	30
2-Butanone (MEK)	0.0500	0.0611		mg/Kg		122	50 - 148	24	30
Carbon disulfide	0.0500	0.0483		mg/Kg		97	58 - 120	6	30
Carbon tetrachloride	0.0500	0.0394		mg/Kg		79	51 - 124	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323152/5

Matrix: Solid

Analysis Batch: 323152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120	3	30
Chloroethane	0.0500	0.0643	*	mg/Kg		129	49 - 125	52	30
Chloroform	0.0500	0.0473		mg/Kg		95	70 - 120	4	30
Chloromethane	0.0500	0.0543		mg/Kg		109	63 - 126	3	30
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 120	4	30
Dibromochloromethane	0.0500	0.0453		mg/Kg		91	69 - 126	1	30
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 120	7	30
1,2-Dichloroethane	0.0500	0.0400		mg/Kg		80	70 - 128	2	30
1,1-Dichloroethene	0.0500	0.0457		mg/Kg		91	67 - 120	5	30
1,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	70 - 120	2	30
Ethylbenzene	0.0500	0.0512		mg/Kg		102	70 - 120	5	30
2-Hexanone	0.0500	0.0573		mg/Kg		115	50 - 150	20	30
Methylene Chloride	0.0500	0.0506		mg/Kg		101	70 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0559		mg/Kg		112	50 - 150	16	30
Methyl tert-butyl ether	0.0500	0.0472		mg/Kg		94	70 - 120	2	30
Styrene	0.0500	0.0508		mg/Kg		102	70 - 120	5	30
1,1,2,2-Tetrachloroethane	0.0500	0.0536		mg/Kg		107	70 - 133	2	30
Tetrachloroethene	0.0500	0.0453		mg/Kg		91	70 - 120	5	30
Toluene	0.0500	0.0513		mg/Kg		103	70 - 120	3	30
trans-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 120	5	30
1,1,1-Trichloroethane	0.0500	0.0422		mg/Kg		84	70 - 120	5	30
1,1,2-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 120	1	30
Trichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120	3	30
Vinyl acetate	0.0500	0.0617		mg/Kg		123	60 - 150	7	30
Vinyl chloride	0.0500	0.0486		mg/Kg		97	69 - 120	6	30
Xylenes, Total	0.100	0.0973		mg/Kg		97	70 - 120	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	97		70 - 122
Dibromofluoromethane	91		75 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 134
Toluene-d8 (Surr)	105		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322670/1-A

Matrix: Solid

Analysis Batch: 323800

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 322670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/12/16 15:29	02/21/16 17:38	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322670/1-A
Matrix: Solid
Analysis Batch: 323800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322670

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/12/16 15:29	02/21/16 17:38	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322670/1-A
Matrix: Solid
Analysis Batch: 323800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/12/16 15:29	02/21/16 17:38	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/12/16 15:29	02/21/16 17:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		25 - 110	02/12/16 15:29	02/21/16 17:38	1
Phenol-d5	84		31 - 110	02/12/16 15:29	02/21/16 17:38	1
Nitrobenzene-d5	86		25 - 115	02/12/16 15:29	02/21/16 17:38	1
2-Fluorobiphenyl	86		25 - 119	02/12/16 15:29	02/21/16 17:38	1
2,4,6-Tribromophenol	71		35 - 137	02/12/16 15:29	02/21/16 17:38	1
Terphenyl-d14	101		36 - 134	02/12/16 15:29	02/21/16 17:38	1

Lab Sample ID: LCS 500-322670/2-A
Matrix: Solid
Analysis Batch: 323800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.04		mg/Kg		78	41 - 110
Bis(2-chloroethyl)ether	1.33	1.09		mg/Kg		82	32 - 110
1,3-Dichlorobenzene	1.33	1.04		mg/Kg		78	44 - 110
1,4-Dichlorobenzene	1.33	1.08		mg/Kg		81	45 - 110
1,2-Dichlorobenzene	1.33	1.08		mg/Kg		81	48 - 110
2-Methylphenol	1.33	1.05		mg/Kg		78	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.787		mg/Kg		59	30 - 115
N-Nitrosodi-n-propylamine	1.33	1.01		mg/Kg		76	24 - 123
Hexachloroethane	1.33	1.12		mg/Kg		84	44 - 110
2-Chlorophenol	1.33	1.07		mg/Kg		80	47 - 114
Nitrobenzene	1.33	1.16		mg/Kg		87	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.09		mg/Kg		82	42 - 110
1,2,4-Trichlorobenzene	1.33	1.15		mg/Kg		86	49 - 110
Isophorone	1.33	1.02		mg/Kg		77	35 - 110
2,4-Dimethylphenol	1.33	1.09		mg/Kg		82	49 - 110
Hexachlorobutadiene	1.33	1.18		mg/Kg		89	47 - 114
Naphthalene	1.33	1.05		mg/Kg		79	48 - 110
2,4-Dichlorophenol	1.33	1.11		mg/Kg		84	53 - 113
4-Chloroaniline	1.33	0.962		mg/Kg		72	16 - 118
2,4,6-Trichlorophenol	1.33	1.12		mg/Kg		84	44 - 118
2,4,5-Trichlorophenol	1.33	1.19		mg/Kg		89	41 - 120
Hexachlorocyclopentadiene	1.33	0.829		mg/Kg		62	10 - 110
2-Methylnaphthalene	1.33	1.09		mg/Kg		82	48 - 110
2-Nitroaniline	1.33	1.14		mg/Kg		85	42 - 122
2-Chloronaphthalene	1.33	1.15		mg/Kg		86	52 - 114
4-Chloro-3-methylphenol	1.33	1.16		mg/Kg		87	52 - 111

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322670/2-A

Matrix: Solid

Analysis Batch: 323800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 322670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	1.33	1.21		mg/Kg		91	54 - 117
2-Nitrophenol	1.33	1.29		mg/Kg		97	48 - 113
3-Nitroaniline	1.33	1.09		mg/Kg		81	36 - 131
Dimethyl phthalate	1.33	1.15		mg/Kg		86	56 - 113
2,4-Dinitrophenol	2.67	<0.67		mg/Kg		16	10 - 110
Acenaphthylene	1.33	1.13		mg/Kg		85	49 - 110
2,4-Dinitrotoluene	1.33	1.34		mg/Kg		101	53 - 122
Acenaphthene	1.33	1.02		mg/Kg		77	46 - 110
Dibenzofuran	1.33	1.13		mg/Kg		85	51 - 119
4-Nitrophenol	2.67	1.83		mg/Kg		69	10 - 157
Fluorene	1.33	1.09		mg/Kg		81	47 - 121
4-Nitroaniline	1.33	1.36		mg/Kg		102	28 - 157
4-Bromophenyl phenyl ether	1.33	1.17		mg/Kg		88	55 - 113
Hexachlorobenzene	1.33	1.21		mg/Kg		91	54 - 114
Diethyl phthalate	1.33	1.14		mg/Kg		85	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.16		mg/Kg		87	53 - 117
Pentachlorophenol	2.67	1.42		mg/Kg		53	10 - 124
N-Nitrosodiphenylamine	1.33	1.14		mg/Kg		85	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.970		mg/Kg		36	10 - 110
Phenanthrene	1.33	1.08		mg/Kg		81	48 - 121
Anthracene	1.33	1.12		mg/Kg		84	48 - 118
Carbazole	1.33	1.29		mg/Kg		97	26 - 188
Di-n-butyl phthalate	1.33	1.14		mg/Kg		85	50 - 128
Fluoranthene	1.33	1.15		mg/Kg		86	48 - 128
Pyrene	1.33	1.10		mg/Kg		83	46 - 114
Butyl benzyl phthalate	1.33	1.13		mg/Kg		85	49 - 121
Benzo[a]anthracene	1.33	1.14		mg/Kg		85	49 - 121
Chrysene	1.33	1.14		mg/Kg		85	45 - 118
3,3'-Dichlorobenzidine	1.33	0.977		mg/Kg		73	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.13		mg/Kg		85	47 - 133
Di-n-octyl phthalate	1.33	1.19		mg/Kg		89	46 - 138
Benzo[b]fluoranthene	1.33	1.22		mg/Kg		91	54 - 122
Benzo[k]fluoranthene	1.33	1.18		mg/Kg		88	44 - 137
Benzo[a]pyrene	1.33	1.21		mg/Kg		90	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.23		mg/Kg		92	49 - 132
Dibenz(a,h)anthracene	1.33	1.26		mg/Kg		95	48 - 134
Benzo[g,h,i]perylene	1.33	1.16		mg/Kg		87	52 - 125
3 & 4 Methylphenol	1.33	1.01		mg/Kg		76	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	84		25 - 110
Phenol-d5	82		31 - 110
Nitrobenzene-d5	86		25 - 115
2-Fluorobiphenyl	84		25 - 119
2,4,6-Tribromophenol	101		35 - 137
Terphenyl-d14	90		36 - 134

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107508-1 MS

Matrix: Solid

Analysis Batch: 323800

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA

Prep Batch: 322670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19		1.56	1.05		mg/Kg	☼	67	41 - 110
Bis(2-chloroethyl)ether	<0.19		1.56	0.979		mg/Kg	☼	63	32 - 110
1,3-Dichlorobenzene	<0.19		1.56	0.913		mg/Kg	☼	59	44 - 110
1,4-Dichlorobenzene	<0.19		1.56	0.950		mg/Kg	☼	61	45 - 110
1,2-Dichlorobenzene	<0.19		1.56	0.964		mg/Kg	☼	62	48 - 110
2-Methylphenol	<0.19		1.56	1.21		mg/Kg	☼	78	44 - 110
2,2'-oxybis[1-chloropropane]	<0.19		1.56	0.665		mg/Kg	☼	43	30 - 115
N-Nitrosodi-n-propylamine	<0.076		1.56	0.944		mg/Kg	☼	61	24 - 123
Hexachloroethane	<0.19	F1	1.56	0.646	F1	mg/Kg	☼	41	44 - 110
2-Chlorophenol	<0.19		1.56	1.04		mg/Kg	☼	67	47 - 114
Nitrobenzene	<0.037		1.56	1.06		mg/Kg	☼	68	35 - 113
Bis(2-chloroethoxy)methane	<0.19		1.56	1.03		mg/Kg	☼	66	42 - 110
1,2,4-Trichlorobenzene	<0.19		1.56	1.06		mg/Kg	☼	68	49 - 110
Isophorone	<0.19		1.56	0.948		mg/Kg	☼	61	35 - 110
2,4-Dimethylphenol	<0.37	F2	1.56	1.12		mg/Kg	☼	72	49 - 110
Hexachlorobutadiene	<0.19		1.56	1.06		mg/Kg	☼	68	47 - 114
Naphthalene	<0.037		1.56	0.993		mg/Kg	☼	64	48 - 110
2,4-Dichlorophenol	<0.37		1.56	1.27		mg/Kg	☼	81	53 - 113
4-Chloroaniline	<0.76		1.56	0.844		mg/Kg	☼	54	16 - 118
2,4,6-Trichlorophenol	<0.37		1.56	1.32		mg/Kg	☼	85	44 - 118
2,4,5-Trichlorophenol	<0.37		1.56	1.37		mg/Kg	☼	88	41 - 120
Hexachlorocyclopentadiene	<0.76	F1	1.56	<0.78	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	<0.037		1.56	1.07		mg/Kg	☼	69	48 - 110
2-Nitroaniline	<0.19		1.56	1.29		mg/Kg	☼	83	42 - 122
2-Chloronaphthalene	<0.19		1.56	1.16		mg/Kg	☼	74	52 - 114
4-Chloro-3-methylphenol	<0.37		1.56	1.39		mg/Kg	☼	89	52 - 111
2,6-Dinitrotoluene	<0.19		1.56	1.33		mg/Kg	☼	86	54 - 117
2-Nitrophenol	<0.37		1.56	1.23		mg/Kg	☼	79	48 - 113
3-Nitroaniline	<0.37		1.56	1.50		mg/Kg	☼	96	36 - 131
Dimethyl phthalate	<0.19		1.56	1.33		mg/Kg	☼	85	56 - 113
2,4-Dinitrophenol	<0.76	F1	3.12	<0.78	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.037		1.56	1.20		mg/Kg	☼	77	49 - 110
2,4-Dinitrotoluene	<0.19		1.56	1.41		mg/Kg	☼	90	53 - 122
Acenaphthene	<0.037		1.56	1.09		mg/Kg	☼	70	46 - 110
Dibenzofuran	<0.19		1.56	1.24		mg/Kg	☼	79	51 - 119
4-Nitrophenol	<0.76		3.12	2.19		mg/Kg	☼	70	10 - 157
Fluorene	<0.037		1.56	1.25		mg/Kg	☼	80	47 - 121
4-Nitroaniline	<0.37		1.56	1.56		mg/Kg	☼	100	28 - 157
4-Bromophenyl phenyl ether	<0.19		1.56	1.38		mg/Kg	☼	89	55 - 113
Hexachlorobenzene	<0.076		1.56	1.44		mg/Kg	☼	92	54 - 114
Diethyl phthalate	<0.19		1.56	1.33		mg/Kg	☼	85	50 - 128
4-Chlorophenyl phenyl ether	<0.19		1.56	1.34		mg/Kg	☼	86	53 - 117
Pentachlorophenol	<0.76	F1	3.12	<0.78	F1	mg/Kg	☼	0	10 - 124
N-Nitrosodiphenylamine	<0.19		1.56	1.34		mg/Kg	☼	86	52 - 111
4,6-Dinitro-2-methylphenol	<0.76	F1	3.12	<0.78	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.086		1.56	1.33		mg/Kg	☼	80	48 - 121
Anthracene	0.018	J	1.56	1.31		mg/Kg	☼	83	48 - 118
Carbazole	<0.19		1.56	1.50		mg/Kg	☼	96	26 - 188

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107508-1 MS

Matrix: Solid

Analysis Batch: 323800

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA

Prep Batch: 322670

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Di-n-butyl phthalate	<0.19		1.56	1.35		mg/Kg	☼	86	50 - 128
Fluoranthene	0.19		1.56	1.36		mg/Kg	☼	75	48 - 128
Pyrene	0.14	F1	1.56	2.41	F1	mg/Kg	☼	146	46 - 114
Butyl benzyl phthalate	<0.19	F1	1.56	2.27	F1	mg/Kg	☼	145	49 - 121
Benzo[a]anthracene	0.077		1.56	1.45		mg/Kg	☼	88	49 - 121
Chrysene	0.11		1.56	1.46		mg/Kg	☼	87	45 - 118
3,3'-Dichlorobenzidine	<0.19		1.56	0.492		mg/Kg	☼	32	26 - 128
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.56	2.24	F1	mg/Kg	☼	143	47 - 133
Di-n-octyl phthalate	<0.19		1.56	0.906		mg/Kg	☼	58	46 - 138
Benzo[b]fluoranthene	0.16		1.56	1.94		mg/Kg	☼	114	54 - 122
Benzo[k]fluoranthene	0.055		1.56	1.97		mg/Kg	☼	123	44 - 137
Benzo[a]pyrene	0.086		1.56	1.56		mg/Kg	☼	94	53 - 122
Indeno[1,2,3-cd]pyrene	0.051	F1	1.56	0.885		mg/Kg	☼	53	49 - 132
Dibenz(a,h)anthracene	0.012	J	1.56	0.926		mg/Kg	☼	59	48 - 134
Benzo[g,h,i]perylene	0.043	F1	1.56	0.783	F1	mg/Kg	☼	47	52 - 125
3 & 4 Methylphenol	<0.19		1.56	1.09		mg/Kg	☼	70	37 - 122

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	69		25 - 110
Phenol-d5	65		31 - 110
Nitrobenzene-d5	65		25 - 115
2-Fluorobiphenyl	68		25 - 119
2,4,6-Tribromophenol	98		35 - 137
Terphenyl-d14	160	X	36 - 134

Lab Sample ID: 500-107508-1 MSD

Matrix: Solid

Analysis Batch: 323800

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA

Prep Batch: 322670

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.19		1.49	0.792		mg/Kg	☼	53	41 - 110	28	30
Bis(2-chloroethyl)ether	<0.19		1.49	0.732		mg/Kg	☼	49	32 - 110	29	30
1,3-Dichlorobenzene	<0.19		1.49	0.677		mg/Kg	☼	46	44 - 110	30	30
1,4-Dichlorobenzene	<0.19		1.49	0.711		mg/Kg	☼	48	45 - 110	29	30
1,2-Dichlorobenzene	<0.19		1.49	0.719		mg/Kg	☼	48	48 - 110	29	30
2-Methylphenol	<0.19		1.49	0.922		mg/Kg	☼	62	44 - 110	27	30
2,2'-oxybis[1-chloropropane]	<0.19		1.49	0.505		mg/Kg	☼	34	30 - 115	27	30
N-Nitrosodi-n-propylamine	<0.076		1.49	0.722		mg/Kg	☼	49	24 - 123	27	30
Hexachloroethane	<0.19	F1	1.49	0.501	F1	mg/Kg	☼	34	44 - 110	25	30
2-Chlorophenol	<0.19		1.49	0.799		mg/Kg	☼	54	47 - 114	26	30
Nitrobenzene	<0.037		1.49	0.793		mg/Kg	☼	53	35 - 113	28	30
Bis(2-chloroethoxy)methane	<0.19		1.49	0.769		mg/Kg	☼	52	42 - 110	29	30
1,2,4-Trichlorobenzene	<0.19		1.49	0.799		mg/Kg	☼	54	49 - 110	28	30
Isophorone	<0.19		1.49	0.721		mg/Kg	☼	48	35 - 110	27	30
2,4-Dimethylphenol	<0.37	F2	1.49	0.816	F2	mg/Kg	☼	55	49 - 110	32	30
Hexachlorobutadiene	<0.19		1.49	0.798		mg/Kg	☼	54	47 - 114	28	30
Naphthalene	<0.037		1.49	0.756		mg/Kg	☼	51	48 - 110	27	30
2,4-Dichlorophenol	<0.37		1.49	1.02		mg/Kg	☼	68	53 - 113	22	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107508-1 MSD

Matrix: Solid

Analysis Batch: 323800

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA

Prep Batch: 322670

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Chloroaniline	<0.76		1.49	0.737	J	mg/Kg	☼	50	16 - 118	14	30
2,4,6-Trichlorophenol	<0.37		1.49	1.09		mg/Kg	☼	73	44 - 118	20	30
2,4,5-Trichlorophenol	<0.37		1.49	1.19		mg/Kg	☼	80	41 - 120	14	30
Hexachlorocyclopentadiene	<0.76	F1	1.49	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	<0.037		1.49	0.839		mg/Kg	☼	56	48 - 110	24	30
2-Nitroaniline	<0.19		1.49	1.08		mg/Kg	☼	73	42 - 122	18	30
2-Chloronaphthalene	<0.19		1.49	0.924		mg/Kg	☼	62	52 - 114	22	30
4-Chloro-3-methylphenol	<0.37		1.49	1.16		mg/Kg	☼	78	52 - 111	18	30
2,6-Dinitrotoluene	<0.19		1.49	1.11		mg/Kg	☼	74	54 - 117	19	30
2-Nitrophenol	<0.37		1.49	0.935		mg/Kg	☼	63	48 - 113	28	30
3-Nitroaniline	<0.37		1.49	1.23		mg/Kg	☼	83	36 - 131	20	30
Dimethyl phthalate	<0.19		1.49	1.08		mg/Kg	☼	73	56 - 113	20	30
2,4-Dinitrophenol	<0.76	F1	2.97	<0.75	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.037		1.49	0.970		mg/Kg	☼	65	49 - 110	21	30
2,4-Dinitrotoluene	<0.19		1.49	1.23		mg/Kg	☼	83	53 - 122	13	30
Acenaphthene	<0.037		1.49	0.893		mg/Kg	☼	60	46 - 110	20	30
Dibenzofuran	<0.19		1.49	1.02		mg/Kg	☼	69	51 - 119	19	30
4-Nitrophenol	<0.76		2.97	1.89		mg/Kg	☼	64	10 - 157	15	30
Fluorene	<0.037		1.49	1.04		mg/Kg	☼	70	47 - 121	18	30
4-Nitroaniline	<0.37		1.49	1.31		mg/Kg	☼	88	28 - 157	17	30
4-Bromophenyl phenyl ether	<0.19		1.49	1.16		mg/Kg	☼	78	55 - 113	18	30
Hexachlorobenzene	<0.076		1.49	1.21		mg/Kg	☼	81	54 - 114	17	30
Diethyl phthalate	<0.19		1.49	1.13		mg/Kg	☼	76	50 - 128	16	30
4-Chlorophenyl phenyl ether	<0.19		1.49	1.11		mg/Kg	☼	75	53 - 117	19	30
Pentachlorophenol	<0.76	F1	2.97	0.798		mg/Kg	☼	27	10 - 124	NC	30
N-Nitrosodiphenylamine	<0.19		1.49	1.13		mg/Kg	☼	76	52 - 111	17	30
4,6-Dinitro-2-methylphenol	<0.76	F1	2.97	0.475	J	mg/Kg	☼	16	10 - 110	NC	30
Phenanthrene	0.086		1.49	1.16		mg/Kg	☼	72	48 - 121	14	30
Anthracene	0.018	J	1.49	1.11		mg/Kg	☼	73	48 - 118	17	30
Carbazole	<0.19		1.49	1.26		mg/Kg	☼	85	26 - 188	18	30
Di-n-butyl phthalate	<0.19		1.49	1.15		mg/Kg	☼	78	50 - 128	15	30
Fluoranthene	0.19		1.49	1.14		mg/Kg	☼	64	48 - 128	17	30
Pyrene	0.14	F1	1.49	1.91	F1	mg/Kg	☼	119	46 - 114	23	30
Butyl benzyl phthalate	<0.19	F1	1.49	1.82	F1	mg/Kg	☼	122	49 - 121	22	30
Benzo[a]anthracene	0.077		1.49	1.21		mg/Kg	☼	76	49 - 121	18	30
Chrysene	0.11		1.49	1.21		mg/Kg	☼	74	45 - 118	19	30
3,3'-Dichlorobenzidine	<0.19		1.49	0.438		mg/Kg	☼	29	26 - 128	11	30
Bis(2-ethylhexyl) phthalate	<0.19	F1	1.49	1.80		mg/Kg	☼	121	47 - 133	22	30
Di-n-octyl phthalate	<0.19		1.49	0.803		mg/Kg	☼	54	46 - 138	12	30
Benzo[b]fluoranthene	0.16		1.49	1.57		mg/Kg	☼	95	54 - 122	21	30
Benzo[k]fluoranthene	0.055		1.49	1.58		mg/Kg	☼	103	44 - 137	21	30
Benzo[a]pyrene	0.086		1.49	1.30		mg/Kg	☼	82	53 - 122	18	30
Indeno[1,2,3-cd]pyrene	0.051	F1	1.49	0.741	F1	mg/Kg	☼	46	49 - 132	18	30
Dibenz(a,h)anthracene	0.012	J	1.49	0.773		mg/Kg	☼	51	48 - 134	18	30
Benzo[g,h,i]perylene	0.043	F1	1.49	0.637	F1	mg/Kg	☼	40	52 - 125	21	30
3 & 4 Methylphenol	<0.19		1.49	0.855		mg/Kg	☼	58	37 - 122	24	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107508-1 MSD
Matrix: Solid
Analysis Batch: 323800

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 322670

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	54		25 - 110
Phenol-d5	52		31 - 110
Nitrobenzene-d5	51		25 - 115
2-Fluorobiphenyl	57		25 - 119
2,4,6-Tribromophenol	91		35 - 137
Terphenyl-d14	136	X	36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: 500-107508-1 MS
Matrix: Solid
Analysis Batch: 323339

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Antimony	<1.1	F1 F2	28.8	9.15	F1	mg/Kg	☼	32	75 - 125
Arsenic	4.3	F1 B	5.77	7.20	F1	mg/Kg	☼	50	75 - 125
Barium	30		115	126		mg/Kg	☼	83	75 - 125
Beryllium	0.41		2.88	2.93		mg/Kg	☼	87	75 - 125
Boron	4.3	F1	57.7	48.7		mg/Kg	☼	77	75 - 125
Cadmium	0.037	J	2.88	2.49		mg/Kg	☼	85	75 - 125
Chromium	12	B	11.5	22.4		mg/Kg	☼	91	75 - 125
Cobalt	5.5		28.8	34.4		mg/Kg	☼	100	75 - 125
Copper	15	F1	14.4	23.0	F1	mg/Kg	☼	55	75 - 125
Iron	11000	F2 B	57.7	7860	4	mg/Kg	☼	-6162	75 - 125
Lead	15	F1 F2	5.77	17.5	F1	mg/Kg	☼	44	75 - 125
Magnesium	22000		577	18400	4	mg/Kg	☼	-563	75 - 125
Manganese	240	B	28.8	236	4	mg/Kg	☼	-18	75 - 125
Nickel	17		28.8	42.8		mg/Kg	☼	91	75 - 125
Potassium	850	F1	577	1920	F1	mg/Kg	☼	185	75 - 125
Selenium	0.42	J F1 F2	5.77	4.93		mg/Kg	☼	78	75 - 125
Silver	<0.29	F2	2.88	2.50		mg/Kg	☼	87	75 - 125
Sodium	380		577	856		mg/Kg	☼	82	75 - 125
Thallium	<0.57		5.77	5.30		mg/Kg	☼	92	75 - 125
Vanadium	19		28.8	41.6		mg/Kg	☼	78	75 - 125
Zinc	58		28.8	84.2		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-107508-1 MS
Matrix: Solid
Analysis Batch: 323522

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Calcium	45000	B	577	33000	4	mg/Kg	☼	-2058	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107508-1 MSD

Matrix: Solid
Analysis Batch: 323339

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Antimony	<1.1	F1 F2	26.3	6.19	F1 F2	mg/Kg	☼	24	75 - 125	39	20
Arsenic	4.3	F1 B	5.25	8.20		mg/Kg	☼	75	75 - 125	13	20
Barium	30		105	114		mg/Kg	☼	80	75 - 125	10	20
Beryllium	0.41		2.63	2.46		mg/Kg	☼	78	75 - 125	17	20
Boron	4.3	F1	52.5	40.0	F1	mg/Kg	☼	68	75 - 125	20	20
Cadmium	0.037	J	2.63	2.04		mg/Kg	☼	76	75 - 125	20	20
Chromium	12	B	10.5	21.1		mg/Kg	☼	88	75 - 125	6	20
Cobalt	5.5		26.3	32.0		mg/Kg	☼	101	75 - 125	7	20
Copper	15	F1	13.1	25.6		mg/Kg	☼	80	75 - 125	11	20
Iron	11000	F2 B	52.5	10800	4 F2	mg/Kg	☼	-1175	75 - 125	32	20
Lead	15	F1 F2	5.25	24.7	F1 F2	mg/Kg	☼	183	75 - 125	34	20
Magnesium	22000		525	18300	4	mg/Kg	☼	-644	75 - 125	1	20
Manganese	240	B	26.3	253	4	mg/Kg	☼	48	75 - 125	7	20
Nickel	17		26.3	42.1		mg/Kg	☼	97	75 - 125	2	20
Potassium	850	F1	525	1800	F1	mg/Kg	☼	181	75 - 125	6	20
Selenium	0.42	J F1 F2	5.25	3.94	F1 F2	mg/Kg	☼	67	75 - 125	22	20
Silver	<0.29	F2	2.63	2.01	F2	mg/Kg	☼	77	75 - 125	22	20
Sodium	380		525	804		mg/Kg	☼	81	75 - 125	6	20
Thallium	<0.57		5.25	4.36		mg/Kg	☼	83	75 - 125	20	20
Vanadium	19		26.3	41.4		mg/Kg	☼	85	75 - 125	1	20
Zinc	58		26.3	90.3		mg/Kg	☼	123	75 - 125	7	20

Lab Sample ID: 500-107508-1 MSD

Matrix: Solid
Analysis Batch: 323522

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Calcium	45000	B	525	35200	4	mg/Kg	☼	-1840	75 - 125	6	20

Lab Sample ID: 500-107508-1 DU

Matrix: Solid
Analysis Batch: 323339

Client Sample ID: 2746-01-B18 (0-8)

Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Antimony	<1.1	F1 F2	<1.0		mg/Kg	☼	NC	20
Arsenic	4.3	F1 B	5.40	F3	mg/Kg	☼	23	20
Barium	30		32.8		mg/Kg	☼	9	20
Beryllium	0.41		0.408		mg/Kg	☼	0.4	20
Boron	4.3	F1	3.96		mg/Kg	☼	8	20
Cadmium	0.037	J	0.0375	J	mg/Kg	☼	2	20
Chromium	12	B	11.9		mg/Kg	☼	0.4	20
Cobalt	5.5		6.95	F3	mg/Kg	☼	23	20
Copper	15	F1	15.0		mg/Kg	☼	0.2	20
Iron	11000	F2 B	10800		mg/Kg	☼	6	20
Lead	15	F1 F2	17.0		mg/Kg	☼	12	20
Magnesium	22000		19800		mg/Kg	☼	9	20
Manganese	240	B	259		mg/Kg	☼	7	20
Nickel	17		18.4		mg/Kg	☼	10	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107508-1 DU
Matrix: Solid
Analysis Batch: 323339

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Potassium	850	F1	848		mg/Kg	☼	0.2	20
Selenium	0.42	J F1 F2	0.390	J	mg/Kg	☼	8	20
Silver	<0.29	F2	<0.26		mg/Kg	☼	NC	20
Sodium	380		400		mg/Kg	☼	5	20
Thallium	<0.57		<0.51		mg/Kg	☼	NC	20
Vanadium	19		16.9		mg/Kg	☼	12	20
Zinc	58		62.9		mg/Kg	☼	8	20

Lab Sample ID: 500-107508-1 DU
Matrix: Solid
Analysis Batch: 323522

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 322868

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	45000	B	41200		mg/Kg	☼	8	20

Lab Sample ID: LCS 500-323068/2-A
Matrix: Solid
Analysis Batch: 323340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Barium	0.500	0.505		mg/L		101	80 - 120	
Beryllium	0.0500	0.0506		mg/L		101	80 - 120	
Boron	1.00	0.961		mg/L		96	80 - 120	
Cadmium	0.0500	0.0494		mg/L		99	80 - 120	
Chromium	0.200	0.200		mg/L		100	80 - 120	
Cobalt	0.500	0.502		mg/L		100	80 - 120	
Iron	1.00	1.01		mg/L		101	80 - 120	
Lead	0.100	0.100		mg/L		100	80 - 120	
Manganese	0.500	0.510		mg/L		102	80 - 120	
Nickel	0.500	0.499		mg/L		100	80 - 120	
Selenium	0.100	0.0929		mg/L		93	80 - 120	
Silver	0.0500	0.0502		mg/L		100	80 - 120	
Zinc	0.500	0.495	J	mg/L		99	80 - 120	

Lab Sample ID: LCS 500-323071/2-A
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Manganese	0.500	0.502		mg/L		100	80 - 120	

Lab Sample ID: LB 500-322924/1-B
Matrix: Solid
Analysis Batch: 323340

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323068

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.50		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/16 14:24	02/17/16 19:09	1
Boron	<0.50		0.50	0.050	mg/L		02/16/16 14:24	02/17/16 19:09	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322924/1-B
Matrix: Solid
Analysis Batch: 323340

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323068

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/16 14:24	02/17/16 19:09	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:09	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:09	1
Iron	<0.40		0.40	0.20	mg/L		02/16/16 14:24	02/17/16 19:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/16/16 14:24	02/17/16 19:09	1
Manganese	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:09	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:09	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/16 14:24	02/17/16 19:09	1
Silver	<0.025		0.025	0.010	mg/L		02/16/16 14:24	02/17/16 19:09	1
Zinc	<0.50		0.50	0.020	mg/L		02/16/16 14:24	02/17/16 19:09	1

Lab Sample ID: 500-107508-3 MS
Matrix: Solid
Analysis Batch: 323340

Client Sample ID: 2746-01-B18 (16-24)
Prep Type: TCLP
Prep Batch: 323068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Barium	0.62		0.500	1.12		mg/L		100	50 - 150
Beryllium	<0.0040		0.0500	0.0517		mg/L		103	50 - 150
Boron	0.72	F1	1.00	1.15	F1	mg/L		43	50 - 150
Cadmium	<0.0050		0.0500	0.0505		mg/L		101	50 - 150
Chromium	<0.025		0.200	0.199		mg/L		99	50 - 150
Cobalt	0.017	J	0.500	0.513		mg/L		99	50 - 150
Iron	<0.40		1.00	1.04		mg/L		104	50 - 150
Lead	<0.0075		0.100	0.100		mg/L		100	50 - 150
Manganese	2.1		0.500	2.64	4	mg/L		118	50 - 150
Nickel	0.043		0.500	0.536		mg/L		99	50 - 150
Selenium	<0.050		0.100	0.110		mg/L		110	50 - 150
Silver	<0.025		0.0500	0.0557		mg/L		111	50 - 150
Zinc	0.22	J	0.500	0.552		mg/L		67	50 - 150

Lab Sample ID: 500-107508-3 DU
Matrix: Solid
Analysis Batch: 323340

Client Sample ID: 2746-01-B18 (16-24)
Prep Type: TCLP
Prep Batch: 323068

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit
			Result	Qualifier				
Barium	0.62		0.635		mg/L		3	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.72	F1	0.736		mg/L		2	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.017	J	0.0170	J	mg/L		2	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.1		2.11		mg/L		2	20
Nickel	0.043		0.0435		mg/L		1	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.22	J	0.222	J	mg/L		2	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-322928/1-B
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 323071

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/16/16 14:30	02/18/16 18:10	1

Lab Sample ID: 500-107508-1 MS
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: SPLP East
Prep Batch: 323071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.18		0.500	0.715		mg/L		107	50 - 150

Lab Sample ID: 500-107508-1 DU
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: SPLP East
Prep Batch: 323071

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.18		0.182		mg/L		0.1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-323068/2-A
Matrix: Solid
Analysis Batch: 323369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.442	^	mg/L		88	80 - 120
Thallium	0.100	0.106	^	mg/L		106	80 - 120

Lab Sample ID: LB 500-322924/1-B
Matrix: Solid
Analysis Batch: 323369

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323068

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060	^	0.0060	0.0060	mg/L		02/16/16 14:24	02/17/16 18:29	1
Thallium	<0.0020	^	0.0020	0.0020	mg/L		02/16/16 14:24	02/17/16 18:29	1

Lab Sample ID: 500-107508-3 MS
Matrix: Solid
Analysis Batch: 323369

Client Sample ID: 2746-01-B18 (16-24)
Prep Type: TCLP
Prep Batch: 323068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.422		mg/L		84	50 - 150
Thallium	<0.0020	^	0.100	0.120	^	mg/L		120	50 - 150

Lab Sample ID: 500-107508-3 DU
Matrix: Solid
Analysis Batch: 323369

Client Sample ID: 2746-01-B18 (16-24)
Prep Type: TCLP
Prep Batch: 323068

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020	^	<0.0020	^	mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-323217/12-A
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:12	1

Lab Sample ID: LCS 500-323217/13-A
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00175		mg/L		87	80 - 120

Lab Sample ID: LB 500-322924/1-C
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323217

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:16	1

Lab Sample ID: 500-107508-2 MS
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: 2746-01-B18 (8-16)
Prep Type: TCLP
Prep Batch: 323217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00109		mg/L		109	50 - 150

Lab Sample ID: 500-107508-2 DU
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: 2746-01-B18 (8-16)
Prep Type: TCLP
Prep Batch: 323217

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-323061/12-A
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/16/16 16:00	02/17/16 10:27	1

Lab Sample ID: LCS 500-323061/13-A
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.154		mg/Kg		92	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-107508-1 MS
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 323061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.021		0.0918	0.103		mg/Kg	☼	89	75 - 125

Lab Sample ID: 500-107508-1 MSD
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 323061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.021		0.0877	0.104		mg/Kg	☼	94	75 - 125	1	20

Lab Sample ID: 500-107508-1 DU
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: 2746-01-B18 (0-8)
Prep Type: Total/NA
Prep Batch: 323061

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.021		0.0200		mg/Kg	☼	4	20

Method: 9045D - pH

Lab Sample ID: 500-107508-7 DU
Matrix: Solid
Analysis Batch: 322930

Client Sample ID: 2746-01-B17 (8-16)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.39		8.430		SU		0.5	

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Date Collected: 02/11/16 10:10

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 18:23	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 19:22	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 18:37	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 20:21		
					(End)	02/15/16 20:34		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B18 (0-8)

Lab Sample ID: 500-107508-1

Date Collected: 02/11/16 10:10

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 05:35	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 19:06	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 22:34	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 13:22	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 10:31	MJD	TAL CHI

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 18:50	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 19:29	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 18:41	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 20:34 (End) 02/15/16 20:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B18 (8-16)

Lab Sample ID: 500-107508-2

Date Collected: 02/11/16 10:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 06:01	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 19:36	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 22:57	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 13:50	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 10:40	MJD	TAL CHI

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 18:57	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 19:36	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 18:53	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:30	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 20:47 (End) 02/15/16 21:01	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B18 (16-24)

Lab Sample ID: 500-107508-3

Date Collected: 02/11/16 10:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 06:26	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 20:05	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:03	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 13:54	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 10:42	MJD	TAL CHI

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 19:04	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:03	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:09	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 21:01 (End) 02/15/16 21:14	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)

Lab Sample ID: 500-107508-4

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 06:52	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 20:35	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:08	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 13:58	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 10:44	MJD	TAL CHI

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 19:10	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:10	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:13	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:33	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 21:14		
					(End)	02/15/16 21:27		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 07:17	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 21:04	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:20	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B18 (24-30)D

Lab Sample ID: 500-107508-5

Date Collected: 02/11/16 10:20

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:02	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 10:56	MJD	TAL CHI

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Date Collected: 02/11/16 10:57

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 19:33	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:32	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:18	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:35	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 21:27		
					(End)	02/15/16 21:41		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B17 (0-8)

Lab Sample ID: 500-107508-6

Date Collected: 02/11/16 10:57

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323072	02/17/16 07:44	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 21:34	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:25	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:06	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 10:58	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Date Collected: 02/11/16 11:00

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 19:40	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:39	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:22	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:37	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 21:41		
					(End)	02/15/16 21:54		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B17 (8-16)

Lab Sample ID: 500-107508-7

Date Collected: 02/11/16 11:00

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 05:37	PMF	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 22:03	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:30	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:10	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:00	MJD	TAL CHI

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 19:46	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:46	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:26	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:39	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 22:07 (End) 02/15/16 22:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B16 (0-8)

Lab Sample ID: 500-107508-8

Date Collected: 02/11/16 11:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 15:10	BDW	TAL CHI
Total/NA	Prep	3541	DL		322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	4	323919	02/22/16 21:05	AJD	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 22:33	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:35	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:14	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:11	MJD	TAL CHI

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 19:53	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:52	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:30	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:41	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 22:21 (End) 02/15/16 22:34	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B16 (8-16)

Lab Sample ID: 500-107508-9

Date Collected: 02/11/16 11:47

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323064	02/17/16 06:27	PMF	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 23:02	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:40	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:18	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:13	MJD	TAL CHI

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Date Collected: 02/11/16 11:52

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:00	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 20:59	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:46	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:43	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 22:34 (End) 02/15/16 22:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (16-24)

Lab Sample ID: 500-107508-10

Date Collected: 02/11/16 11:52

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 15:36	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/21/16 23:32	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:45	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:31	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:15	MJD	TAL CHI

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:07	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 21:06	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:50	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:45	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 22:47		
					(End)	02/15/16 23:01		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 16:01	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/22/16 00:01	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:50	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B16 (24-30)

Lab Sample ID: 500-107508-11

Date Collected: 02/11/16 12:03

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:35	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:17	MJD	TAL CHI

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Date Collected: 02/11/16 12:45

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:13	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 21:13	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:55	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:47	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 23:01		
					(End)	02/15/16 23:14		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B15 (0-8)

Lab Sample ID: 500-107508-12

Date Collected: 02/11/16 12:45

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 16:27	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 14:19	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/17/16 23:55	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:39	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:19	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Date Collected: 02/11/16 12:50

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:20	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 21:19	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 19:59	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:53	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/15/16 23:14		
					(End)	02/15/16 23:27		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B15 (8-17)

Lab Sample ID: 500-107508-13

Date Collected: 02/11/16 12:50

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 16:52	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/22/16 01:00	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/18/16 00:00	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:43	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:21	MJD	TAL CHI

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:27	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 21:26	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 20:03	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:55	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 23:27 (End) 02/15/16 23:41	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B14 (0-8)

Lab Sample ID: 500-107508-14

Date Collected: 02/11/16 14:05

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 17:18	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 14:48	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/18/16 00:06	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:47	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:23	MJD	TAL CHI

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:34	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 21:33	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 20:07	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:57	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 23:41 (End) 02/15/16 23:54	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B14 (8-16)

Lab Sample ID: 500-107508-15

Date Collected: 02/11/16 14:13

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 17:44	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/22/16 01:59	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/18/16 00:23	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:51	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:29	MJD	TAL CHI

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

Date Collected: 02/11/16 14:17

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 20:56	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 21:55	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 20:11	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:59	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930	(Start) 02/15/16 23:54 (End) 02/16/16 00:07	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (16-24)

Lab Sample ID: 500-107508-16

Date Collected: 02/11/16 14:17

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 18:09	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323800	02/22/16 02:29	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/18/16 00:28	PJ1	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:55	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:32	MJD	TAL CHI

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			322928	02/15/16 13:00	FXG	TAL CHI
SPLP East	Prep	3010A			323071	02/16/16 14:30	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323563	02/18/16 21:03	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6010B		1	323340	02/17/16 22:02	PJ1	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	3010A			323068	02/16/16 14:24	JNH	TAL CHI
TCLP	Analysis	6020A		1	323369	02/17/16 20:15	PFK	TAL CHI
TCLP	Leach	1311			322924	02/15/16 13:00	FXG	TAL CHI
TCLP	Prep	7470A			323217	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 11:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	322930		SMO	TAL CHI
					(Start)	02/16/16 00:07		
					(End)	02/16/16 00:21		
Total/NA	Analysis	Moisture		1	322637	02/12/16 13:18	LWN	TAL CHI

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322954	02/12/16 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323152	02/17/16 18:35	BDW	TAL CHI
Total/NA	Prep	3541			322670	02/12/16 15:29	JP1	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 15:17	AJD	TAL CHI
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		1	323339	02/18/16 00:33	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Client Sample ID: 2746-01-B14 (24-30)

Lab Sample ID: 500-107508-17

Date Collected: 02/11/16 14:23

Matrix: Solid

Date Received: 02/12/16 07:55

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			322868	02/15/16 09:56	JEF	TAL CHI
Total/NA	Analysis	6010B		10	323522	02/18/16 14:59	PJ1	TAL CHI
Total/NA	Prep	7471B			323061	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:34	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107508-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5200



500-107508 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107508
Chain of Custody Number: _____
Page _____ of _____
Temperature °C of Cooler: 24.30

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Matrix		Matrix		Comments			
Project Location/State		Lab PM		Matrix		Matrix					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total TAL Metals	TCLP/SPLP Metals	pH/Percent Solids
1		2746-01-B18(0-8)	2/11/16	1010	2 5	X	X	X	X	X	
2		2746-01-B18(8-16)	2/11	1013	2 5	X	X	X	X	X	
3		2746-01-B18(16-24)	2/11	1017	2 5	X	X	X	X	X	
4		2746-01-B18(24-30)	2/11	1020	2 5	X	X	X	X	X	
5		2746-01-B18(24-30)D	2/11	1020	2 5	X	X	X	X	X	
6		2746-01-B17(0-8)	2/11	1057	2 5	X	X	X	X	X	
7		2746-01-B17(8-16)	2/11	1100	2 5	X	X	X	X	X	
8		2746-01-B16(0-8)	2/11	1145	2 5	X	X	X	X	X	
9		2746-01-B16(8-16)	2/11	1147	2 5	X	X	X	X	X	
10		2746-01-B16(16-24)	2/11	1152	2 5	X	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client

Disposal by Lab

Archive for ___ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>J. Hughes</u>	Company <u>E+E</u>	Date <u>2/11/16</u>	Time	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>2/11/16</u>	Time <u>1500</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>2/11/16</u>	Time <u>1735</u>	Received By <u>Shirley</u>	Company <u>TA-CHE</u>	Date <u>2/12/16</u>	Time <u>0755</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key

- WW - Wastewater
- W - Water
- S - Soil
- SL - Sludge
- MS - Miscellaneous
- OL - Oil
- A - Air
- SE - Sediment
- SO - Soil
- L - Leachate
- WI - Wipe
- DW - Drinking Water
- O - Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-107508

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter										Preservative Key	
E+E		1009341.0005.01														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers		Matrix								Comments	
I-90		50011818		Date Time													
Project Location/State		Lab PM															
Cook County, IL		D. Wright															
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total TAL Metals	TCLP/SPLP Metals	pH/Percent Solids						
11		2746-01-B16(24-30)	2/11/16	1203	2	5	X	X	X	X	X						
12		2746-01-B15(0-8)	2/11	1245	2	5	X	X	X	X	X						
13		2746-01-B15(9-17)	2/11	1250	2	5	X	X	X	X	X						
14		2746-01-B14(0-8)	2/11	1405	2	5	X	X	X	X	X						
15		2746-01-B14(8-16)	2/11	1413	2	5	X	X	X	X	X						
16		2746-01-B14(16-24)	2/11	1417	2	5	X	X	X	X	X						
17		2746-01-B14(24-30)	2/11	1423	2	5	X	X	X	X	X						

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date: _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>J. Hughes</u> Company: <u>E+E</u> Date: <u>2/11/16</u> Time: _____	Received By: <u>R. Neal</u> Company: <u>TA</u> Date: <u>2/11/16</u> Time: <u>1500</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>R. Neal</u> Company: <u>TA</u> Date: <u>2/11/16</u> Time: <u>1735</u>	Received By: <u>Shirley Scott</u> Company: <u>TA-CAT</u> Date: <u>2/12/16</u> Time: <u>0755</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107508-1

Login Number: 107508

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107556-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/23/2016 1:39:18 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Job ID: 500-107556-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107556-1

Comments

No additional comments.

Receipt

The samples were received on 2/12/2016 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 3.2° C and 4.6° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch 500-323207 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-322938 and analytical batch 500-323893 had 2 analytes outside control limits: 2,4-Dinitrophenol and Hexachlorocyclopentadiene; therefore, corrective action was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01-B08 (7-14) (500-107556-13), 2746-01-B09 (0-8) (500-107556-14), 2746-01-B09 (16-24) (500-107556-16) and (500-107556-E-1-E MSD). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The instrument blank for analytical batch 500-323716 contained Calcium greater than the reporting limit (RL), and were not reanalyzed because associated samples had results greater than 10x the amount found in the blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.028		0.016	0.0032	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.0061	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.015	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.014	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J F1	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0093	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	34		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.36		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	5.7		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	31000	B	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.3	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.7		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	9300	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	18000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	650		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.44	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	1600		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	62		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.11	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.016	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	3.2		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.22	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.89		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.038		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.039		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	27		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.44		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	8.7		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.071	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	78000	B ^	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (8-16) (Continued)

Lab Sample ID: 500-107556-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	21		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	9.9		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	33000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	400		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.55		0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	620		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.39	J	0.54	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.055	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.050		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.067		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.0097	J	0.017	0.0087	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.070		0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.18		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0072	J	0.037	0.0068	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.026	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.034	J	0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B ^	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	30		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.58		0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.53	J	0.56	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	67		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (24-30) (Continued)

Lab Sample ID: 500-107556-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.048	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.063		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0070	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.065		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0080	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.019	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	48		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.67		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.056	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	63000	B ^	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	240		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.47	J	0.56	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.59		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.31	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.35		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.025		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	7.79		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (0-8) (Continued)

Lab Sample ID: 500-107556-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.042		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0067	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.096		0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.083		0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.034	J	0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.060		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.11		0.040	0.0087	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.041		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.049		0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.038	J	0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0079	J	0.040	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.032	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	56		0.58	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	3.9		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.081	J	0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.58	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.7		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.58	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	14000	B	5.8	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	430		0.58	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.58	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	930		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.58	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	1000		58	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	65		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.42	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.68		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.21	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.079		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.014	J	0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.61		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0087	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.020	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0075	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.062		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0082	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.026	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.026	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (8-16) (Continued)

Lab Sample ID: 500-107556-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	29		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	76000	B ^	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	12	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	26		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	32000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	380		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	410		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	60		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.045		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.039	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.018		0.018	0.0093	mg/Kg	1	☼	7471B	Total/NA
pH	7.83		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.042		0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.010	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.10		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.099		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.093	J	0.20	0.074	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.049		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.068		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.046		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.060		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.010	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.041		0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	6.5		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	57000	B ^	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.55	0.095	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.1		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8) (Continued)

Lab Sample ID: 500-107556-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	21		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	14000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	68		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	22		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1400		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Sodium	1100		55	7.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	75		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.063	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.52		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.50		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.033	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.069		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.071		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.033	J	0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.047		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.084		0.039	0.0085	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.036	J	0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.044		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.024	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.029	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.6		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.49		0.23	0.050	mg/Kg	1	☼	6010B	Total/NA
Boron	7.4		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B ^	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.57	0.099	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.4		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	13000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	71		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	20		0.57	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.43	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	910		57	7.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		0.29	0.084	mg/Kg	1	☼	6010B	Total/NA
Zinc	90		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)D (Continued)

Lab Sample ID: 500-107556-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.45	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.43	J	0.50	0.050	mg/L	1		6010B	TCLP
Lead	0.0082		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	0.72		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.017		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.026		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.56		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0051	J	0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.7		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	15		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.34		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	6.5		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	120000	B ^	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	7.5	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.6		0.29	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	19		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	12000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	8.3		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	51000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	630		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	15		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1000		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.57		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	290		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.50		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.028		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.61	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.044		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	7.79		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.021	J	0.037	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.074		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0063	J	0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.060		0.037	0.0053	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (16-24) (Continued)

Lab Sample ID: 500-107556-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.023	J	0.037	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.1		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	47		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	67000	B ^	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	18	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	23000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	310		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.61		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.49	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.035		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.0	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.32		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.017	0.0090	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.019	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.047		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0065	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.070		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0071	J	0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.026	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	14		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	65000	B ^	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (24-30) (Continued)

Lab Sample ID: 500-107556-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	23000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	320		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	21		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.53		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.76	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.48		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.022		0.018	0.0096	mg/Kg	1	☼	7471B	Total/NA
pH	8.24		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.017		0.014	0.0027	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.029	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.042		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.045		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.020	J	0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.023	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.035	J	0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.014	J	0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.4		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	100		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.85		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	4.4		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	8200	B	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	0.56	0.097	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	16		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7200	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	230		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1500		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	800		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	76		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.47	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (0-7) (Continued)

Lab Sample ID: 500-107556-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	6.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.98	B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.034		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.45		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.029		0.016	0.0031	mg/Kg	1	☼	8260B	Total/NA
Phenanthrene	0.0060	J	0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0076	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.1		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	8.1		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.073	J	0.11	0.032	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B ^	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	16	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	12		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000	B	5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1800		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.65		0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	1200		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.44	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.018	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.029		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.42	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.42		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.016	J	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	7.91		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.053		0.016	0.0032	mg/Kg	1	☼	8260B	Total/NA
Naphthalene	0.030	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.045		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.011	J	0.039	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.015	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (0-8) (Continued)

Lab Sample ID: 500-107556-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.13		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.025	J	0.039	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.16		0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.064		0.039	0.0053	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.081		0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.039	0.0084	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.040		0.039	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.050		0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.029	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.025	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.6		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	86		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	6.5		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12		0.11	0.033	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000	B ^	11	3.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	17	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	B	11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	31		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	13000	B	5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	31		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	1600		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.40	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Sodium	330		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.52		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.0088		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	8.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.019	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	1.1	B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.067		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	1.3		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	7.96		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.010	J	0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	10		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	44		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.68		0.22	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	9.7		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (8-16) (Continued)

Lab Sample ID: 500-107556-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	32000	B ^	11	3.6	mg/Kg	1	☼	6010B	Total/NA
Chromium	16	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	24		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	B	11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	19000	B	5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	32		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	280		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	26		0.28	0.082	mg/Kg	1	☼	6010B	Total/NA
Zinc	64		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.40	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.76		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.021		0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	7.88		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.0088	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0063	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.036		0.036	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0082	J	0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.021	J	0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.2		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	7.7		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.21	J	0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	4.5		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	92000	B ^	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	6.5	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.1		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	8000	B	11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	5.9		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	37000	B	5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	330		0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	12		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	570		27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		54	7.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.7		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	51		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.39	J	0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (16-24) (Continued)

Lab Sample ID: 500-107556-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	2.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.33	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.016	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	7.86		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.018	J	0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0099	J	0.040	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.053		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0087	J	0.040	0.0075	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.025	J	0.040	0.0080	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.018	J	0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.6		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	53		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.73		0.23	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	15		2.9	0.41	mg/Kg	1	☼	6010B	Total/NA
Calcium	64000	B ^	120	38	mg/Kg	10	☼	6010B	Total/NA
Chromium	19	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.29	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.59	0.13	mg/Kg	1	☼	6010B	Total/NA
Iron	18000	B	12	4.5	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.29	0.15	mg/Kg	1	☼	6010B	Total/NA
Magnesium	22000	B	5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	300		0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	35		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	2900		29	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.38	J	0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	230		59	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.29	0.085	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	0.71		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.56		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.030		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.046	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.21		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.020		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.67		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107556-1	2746-01-B05 (0-8)	Solid	02/12/16 09:15	02/12/16 16:10
500-107556-2	2746-01-B05 (8-16)	Solid	02/12/16 09:20	02/12/16 16:10
500-107556-3	2746-01-B05 (24-30)	Solid	02/12/16 09:22	02/12/16 16:10
500-107556-4	2746-01-B05 (16-24)	Solid	02/12/16 09:25	02/12/16 16:10
500-107556-5	2746-01-B06 (0-8)	Solid	02/12/16 09:55	02/12/16 16:10
500-107556-6	2746-01-B06 (8-16)	Solid	02/12/16 10:00	02/12/16 16:10
500-107556-7	2746-01-B07 (0-8)	Solid	02/12/16 10:52	02/12/16 16:10
500-107556-8	2746-01-B07 (0-8)D	Solid	02/12/16 10:52	02/12/16 16:10
500-107556-9	2746-01-B07 (8-16)	Solid	02/12/16 10:57	02/12/16 16:10
500-107556-10	2746-01-B07 (16-24)	Solid	02/12/16 11:00	02/12/16 16:10
500-107556-11	2746-01-B07 (24-30)	Solid	02/12/16 11:05	02/12/16 16:10
500-107556-12	2746-01-B08 (0-7)	Solid	02/12/16 11:35	02/12/16 16:10
500-107556-13	2746-01-B08 (7-14)	Solid	02/12/16 11:40	02/12/16 16:10
500-107556-14	2746-01-B09 (0-8)	Solid	02/12/16 12:50	02/12/16 16:10
500-107556-15	2746-01-B09 (8-16)	Solid	02/12/16 12:53	02/12/16 16:10
500-107556-16	2746-01-B09 (16-24)	Solid	02/12/16 12:56	02/12/16 16:10
500-107556-17	2746-01-B09 (24-30)	Solid	02/12/16 13:00	02/12/16 16:10

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Date Collected: 02/12/16 09:15

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.028		0.016	0.0032	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00095	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/13/16 09:15	02/17/16 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/13/16 09:15	02/17/16 23:05	1
Dibromofluoromethane	97		75 - 120	02/13/16 09:15	02/17/16 23:05	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/16 09:15	02/17/16 23:05	1
Toluene-d8 (Surr)	101		75 - 122	02/13/16 09:15	02/17/16 23:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Date Collected: 02/12/16 09:15

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Naphthalene	0.0061	J	0.038	0.0059	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Hexachlorocyclopentadiene	<0.78	* F1	0.78	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,4-Dinitrophenol	<0.78	* F1	0.78	0.68	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Pentachlorophenol	<0.78	F2	0.78	0.62	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
4,6-Dinitro-2-methylphenol	<0.78	F1	0.78	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Phenanthrene	0.015	J	0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Fluoranthene	0.014	J	0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Pyrene	0.011	J F1	0.038	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Benzo[a]anthracene	0.0066	J	0.038	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Date Collected: 02/12/16 09:15

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Benzo[b]fluoranthene	0.0093	J	0.038	0.0083	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Indeno[1,2,3-cd]pyrene	<0.038	F1	0.038	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Benzo[g,h,i]perylene	<0.038	F1	0.038	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110				02/15/16 19:00	02/22/16 14:00	1
Phenol-d5	77		31 - 110				02/15/16 19:00	02/22/16 14:00	1
Nitrobenzene-d5	71		25 - 115				02/15/16 19:00	02/22/16 14:00	1
2-Fluorobiphenyl	77		25 - 119				02/15/16 19:00	02/22/16 14:00	1
2,4,6-Tribromophenol	88		35 - 137				02/15/16 19:00	02/22/16 14:00	1
Terphenyl-d14	94		36 - 134				02/15/16 19:00	02/22/16 14:00	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Arsenic	2.9		0.57	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Barium	34		0.57	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Beryllium	0.36		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Boron	5.7		2.8	0.40	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Cadmium	0.13		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Calcium	31000	B	11	3.7	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Chromium	9.3	B	0.57	0.098	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Cobalt	4.7		0.28	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Copper	15		0.57	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Iron	9300	B	11	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Lead	12		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Magnesium	18000	B	5.7	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Manganese	210		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Nickel	12		0.57	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Potassium	650		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Selenium	0.44	J	0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Sodium	1600		57	7.5	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Vanadium	17		0.28	0.083	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1
Zinc	62		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 16:57	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.40	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:20	1
Boron	0.11	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Date Collected: 02/12/16 09:15

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 14:20	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:20	1
Cobalt	0.016	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:20	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 14:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 14:20	1
Manganese	3.2		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:20	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:20	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 14:20	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:20	1
Zinc	0.22	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 14:20	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 04:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 13:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 13:47	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.020	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			02/17/16 15:19	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0026	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Benzene	<0.0034		0.0034	0.00075	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Bromodichloromethane	<0.0034		0.0034	0.00057	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Bromoform	<0.0034		0.0034	0.00069	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Bromomethane	<0.0034		0.0034	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
2-Butanone (MEK)	<0.0034		0.0034	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Carbon disulfide	<0.0034		0.0034	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Carbon tetrachloride	<0.0034		0.0034	0.00072	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Chlorobenzene	<0.0034		0.0034	0.00080	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Chloroethane	<0.0034	*	0.0034	0.0014	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Chloroform	<0.0034		0.0034	0.00066	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Chloromethane	<0.0034		0.0034	0.00081	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
cis-1,2-Dichloroethene	<0.0034		0.0034	0.00069	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
cis-1,3-Dichloropropene	<0.0034		0.0034	0.00077	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Dibromochloromethane	<0.0034		0.0034	0.00039	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,1-Dichloroethane	<0.0034		0.0034	0.00070	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,2-Dichloroethane	<0.0034		0.0034	0.00050	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,1-Dichloroethene	<0.0034		0.0034	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,2-Dichloropropane	<0.0034		0.0034	0.00089	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,3-Dichloropropane, Total	<0.0034		0.0034	0.00095	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Ethylbenzene	<0.0034		0.0034	0.00084	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
2-Hexanone	<0.0034		0.0034	0.0010	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Methylene Chloride	<0.0034		0.0034	0.0026	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
4-Methyl-2-pentanone (MIBK)	<0.0034		0.0034	0.00070	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Methyl tert-butyl ether	<0.0034		0.0034	0.00080	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Styrene	<0.0034		0.0034	0.00079	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,1,2,2-Tetrachloroethane	<0.0034		0.0034	0.00054	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Tetrachloroethene	<0.0034		0.0034	0.00070	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Toluene	<0.0034		0.0034	0.0012	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
trans-1,2-Dichloroethene	<0.0034		0.0034	0.00085	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
trans-1,3-Dichloropropene	<0.0034		0.0034	0.00095	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,1,1-Trichloroethane	<0.0034		0.0034	0.00078	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
1,1,2-Trichloroethane	<0.0034		0.0034	0.00065	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Trichloroethene	<0.0034		0.0034	0.00091	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Vinyl acetate	<0.0034		0.0034	0.00091	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Vinyl chloride	<0.0034		0.0034	0.00080	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1
Xylenes, Total	<0.0068		0.0068	0.0013	mg/Kg	☼	02/13/16 09:15	02/17/16 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/13/16 09:15	02/17/16 23:30	1
Dibromofluoromethane	96		75 - 120	02/13/16 09:15	02/17/16 23:30	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/13/16 09:15	02/17/16 23:30	1
Toluene-d8 (Surr)	106		75 - 122	02/13/16 09:15	02/17/16 23:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Hexachlorocyclopentadiene	<0.77 *		0.77	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2-Methylnaphthalene	0.038		0.038	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,4-Dinitrophenol	<0.77 *		0.77	0.67	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Phenanthrene	0.039		0.038	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Pyrene	0.013 J		0.038	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/15/16 19:00	02/22/16 14:29	1
Phenol-d5	75		31 - 110	02/15/16 19:00	02/22/16 14:29	1
Nitrobenzene-d5	70		25 - 115	02/15/16 19:00	02/22/16 14:29	1
2-Fluorobiphenyl	74		25 - 119	02/15/16 19:00	02/22/16 14:29	1
2,4,6-Tribromophenol	84		35 - 137	02/15/16 19:00	02/22/16 14:29	1
Terphenyl-d14	92		36 - 134	02/15/16 19:00	02/22/16 14:29	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Arsenic	5.9		0.54	0.25	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Barium	27		0.54	0.099	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Beryllium	0.44		0.22	0.047	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Boron	8.7		2.7	0.38	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Cadmium	0.071	J	0.11	0.031	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Calcium	78000	B ^	110	35	mg/Kg	☼	02/16/16 15:08	02/19/16 20:48	10
Chromium	11	B	0.54	0.093	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Cobalt	10		0.27	0.061	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Copper	21		0.54	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Iron	14000	B	11	4.2	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Lead	9.9		0.27	0.13	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Magnesium	33000	B	5.4	2.2	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Manganese	400		0.54	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Nickel	25		0.54	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Potassium	1500		27	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Selenium	0.55		0.54	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Sodium	620		54	7.2	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Thallium	0.39	J	0.54	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Vanadium	14		0.27	0.079	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1
Zinc	60		1.1	0.34	mg/Kg	☼	02/16/16 15:08	02/18/16 17:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:27	1
Boron	0.055	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 87.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Cobalt	0.050		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Iron	<0.40		0.40	0.20	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Manganese	2.3		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Nickel	0.067		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Silver	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:27	1
Zinc	<0.50		0.50	0.020	mg/L	-	02/17/16 14:47	02/18/16 14:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.15		0.025	0.010	mg/L	-	02/18/16 08:53	02/20/16 05:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/17/16 14:47	02/18/16 13:51	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/17/16 14:47	02/18/16 13:51	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 09:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0097	J	0.017	0.0087	mg/Kg	☼	02/16/16 16:00	02/17/16 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU	-		02/17/16 15:21	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0028	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Benzene	<0.0037		0.0037	0.00081	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Bromodichloromethane	<0.0037		0.0037	0.00062	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Bromoform	<0.0037		0.0037	0.00075	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Carbon tetrachloride	<0.0037		0.0037	0.00079	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Chlorobenzene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Chloroethane	<0.0037	*	0.0037	0.0015	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Chloroform	<0.0037		0.0037	0.00072	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Chloromethane	<0.0037		0.0037	0.00088	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00075	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00084	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Dibromochloromethane	<0.0037		0.0037	0.00042	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,1-Dichloroethane	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,2-Dichloroethane	<0.0037		0.0037	0.00054	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,2-Dichloropropane	<0.0037		0.0037	0.00096	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Ethylbenzene	<0.0037		0.0037	0.00091	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00087	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Styrene	<0.0037		0.0037	0.00086	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Tetrachloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00085	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00071	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Trichloroethene	<0.0037		0.0037	0.00099	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Vinyl acetate	<0.0037		0.0037	0.00098	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Vinyl chloride	<0.0037		0.0037	0.00087	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1
Xylenes, Total	<0.0073		0.0073	0.0014	mg/Kg	☼	02/13/16 09:15	02/17/16 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/13/16 09:15	02/17/16 23:55	1
Dibromofluoromethane	95		75 - 120	02/13/16 09:15	02/17/16 23:55	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/13/16 09:15	02/17/16 23:55	1
Toluene-d8 (Surr)	107		75 - 122	02/13/16 09:15	02/17/16 23:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Naphthalene	0.070		0.037	0.0058	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Hexachlorocyclopentadiene	<0.76 *		0.76	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2-Methylnaphthalene	0.18		0.037	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,4-Dinitrophenol	<0.76 *		0.76	0.66	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Acenaphthene	0.0072 J		0.037	0.0068	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Phenanthrene	0.13		0.037	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Pyrene	0.026 J		0.037	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110	02/15/16 19:00	02/22/16 14:57	1
Phenol-d5	77		31 - 110	02/15/16 19:00	02/22/16 14:57	1
Nitrobenzene-d5	73		25 - 115	02/15/16 19:00	02/22/16 14:57	1
2-Fluorobiphenyl	75		25 - 119	02/15/16 19:00	02/22/16 14:57	1
2,4,6-Tribromophenol	75		35 - 137	02/15/16 19:00	02/22/16 14:57	1
Terphenyl-d14	97		36 - 134	02/15/16 19:00	02/22/16 14:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Arsenic	8.5		0.56	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Barium	31		0.56	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Beryllium	0.61		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Boron	14		2.8	0.39	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Cadmium	0.034	J	0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Calcium	57000	B ^	110	36	mg/Kg	☼	02/16/16 15:08	02/19/16 20:52	10
Chromium	15	B	0.56	0.097	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Copper	30		0.56	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Iron	18000	B	11	4.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Lead	15		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Magnesium	25000	B	5.6	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Manganese	330		0.56	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Nickel	35		0.56	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Potassium	2300		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Selenium	0.58		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Sodium	180		56	7.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Thallium	0.53	J	0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Vanadium	16		0.28	0.082	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1
Zinc	67		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 17:06	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.50		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:34	1
Boron	0.51		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 14:34	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:34	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:34	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 14:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 14:34	1
Manganese	1.9		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:34	1
Nickel	0.046		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 14:34	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:34	1
Zinc	0.048	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 14:34	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.42		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 05:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 13:55	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 13:55	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.018	0.0095	mg/Kg	☼	02/16/16 16:00	02/17/16 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			02/17/16 15:23	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Date Collected: 02/12/16 09:25

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Chloromethane	<0.0041		0.0041	0.00098	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Tetrachloroethene	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/13/16 09:15	02/18/16 00:20	1
Dibromofluoromethane	96		75 - 120	02/13/16 09:15	02/18/16 00:20	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/13/16 09:15	02/18/16 00:20	1
Toluene-d8 (Surr)	104		75 - 122	02/13/16 09:15	02/18/16 00:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Date Collected: 02/12/16 09:25

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Naphthalene	0.024	J	0.039	0.0060	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2-Methylnaphthalene	0.063		0.039	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Fluorene	0.0070	J	0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Phenanthrene	0.065		0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Fluoranthene	0.0080	J	0.039	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Pyrene	0.019	J	0.039	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Date Collected: 02/12/16 09:25

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.039	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/15/16 19:00	02/22/16 15:26	1
Phenol-d5	76		31 - 110	02/15/16 19:00	02/22/16 15:26	1
Nitrobenzene-d5	69		25 - 115	02/15/16 19:00	02/22/16 15:26	1
2-Fluorobiphenyl	76		25 - 119	02/15/16 19:00	02/22/16 15:26	1
2,4,6-Tribromophenol	82		35 - 137	02/15/16 19:00	02/22/16 15:26	1
Terphenyl-d14	98		36 - 134	02/15/16 19:00	02/22/16 15:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Arsenic	5.4		0.56	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Barium	48		0.56	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Beryllium	0.67		0.22	0.048	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Boron	14		2.8	0.39	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Cadmium	0.056	J	0.11	0.032	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Calcium	63000	B ^	110	36	mg/Kg	☼	02/16/16 15:08	02/19/16 21:01	10
Chromium	18	B	0.56	0.096	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Cobalt	13		0.28	0.063	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Copper	22		0.56	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Iron	18000	B	11	4.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Lead	12		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Magnesium	23000	B	5.6	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Manganese	340		0.56	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Nickel	34		0.56	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Potassium	2600		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Sodium	240		56	7.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Thallium	0.47	J	0.56	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1
Vanadium	22		0.28	0.082	mg/Kg	☼	02/16/16 15:08	02/19/16 20:56	1
Zinc	63		1.1	0.35	mg/Kg	☼	02/16/16 15:08	02/18/16 17:24	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.59		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:40	1
Boron	0.50		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Date Collected: 02/12/16 09:25

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 14:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:40	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:40	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 14:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 14:40	1
Manganese	1.8		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:40	1
Nickel	0.040		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 14:40	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:40	1
Zinc	0.31	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 14:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.35		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 05:22	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 14:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 14:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.0090	mg/Kg	☼	02/16/16 16:00	02/17/16 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			02/17/16 15:26	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0035	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Benzene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Bromodichloromethane	<0.0045		0.0045	0.00076	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Bromoform	<0.0045		0.0045	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
2-Butanone (MEK)	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Carbon disulfide	<0.0045		0.0045	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Carbon tetrachloride	<0.0045		0.0045	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Chlorobenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Chloroethane	<0.0045	*	0.0045	0.0019	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Chloroform	<0.0045		0.0045	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Chloromethane	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
cis-1,2-Dichloroethene	<0.0045		0.0045	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
cis-1,3-Dichloropropene	<0.0045		0.0045	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Dibromochloromethane	<0.0045		0.0045	0.00052	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,1-Dichloroethane	<0.0045		0.0045	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,2-Dichloroethane	<0.0045		0.0045	0.00067	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,1-Dichloroethene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,2-Dichloropropane	<0.0045		0.0045	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,3-Dichloropropane, Total	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Ethylbenzene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Methylene Chloride	<0.0045		0.0045	0.0034	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
4-Methyl-2-pentanone (MIBK)	<0.0045		0.0045	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Methyl tert-butyl ether	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Styrene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,1,2,2-Tetrachloroethane	<0.0045		0.0045	0.00071	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Tetrachloroethene	<0.0045		0.0045	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Toluene	<0.0045		0.0045	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
trans-1,2-Dichloroethene	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
trans-1,3-Dichloropropene	<0.0045		0.0045	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,1,1-Trichloroethane	<0.0045		0.0045	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
1,1,2-Trichloroethane	<0.0045		0.0045	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Trichloroethene	<0.0045		0.0045	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Vinyl acetate	<0.0045		0.0045	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Vinyl chloride	<0.0045		0.0045	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1
Xylenes, Total	<0.0090		0.0090	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/13/16 09:15	02/18/16 00:46	1
Dibromofluoromethane	96		75 - 120	02/13/16 09:15	02/18/16 00:46	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/16 09:15	02/18/16 00:46	1
Toluene-d8 (Surr)	102		75 - 122	02/13/16 09:15	02/18/16 00:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2-Methylnaphthalene	<0.040		0.040	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Phenanthrene	0.042		0.040	0.0056	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Anthracene	0.0067	J	0.040	0.0067	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Di-n-butyl phthalate	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Fluoranthene	0.096		0.040	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Pyrene	0.083		0.040	0.0080	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Benzo[a]anthracene	0.034	J	0.040	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.060		0.040	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Benzo[b]fluoranthene	0.11		0.040	0.0087	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Benzo[k]fluoranthene	0.041		0.040	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Benzo[a]pyrene	0.049		0.040	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Indeno[1,2,3-cd]pyrene	0.038	J	0.040	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Dibenz(a,h)anthracene	0.0079	J	0.040	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
Benzo[g,h,i]perylene	0.032	J	0.040	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	02/15/16 19:00	02/22/16 15:55	1
Phenol-d5	69		31 - 110	02/15/16 19:00	02/22/16 15:55	1
Nitrobenzene-d5	63		25 - 115	02/15/16 19:00	02/22/16 15:55	1
2-Fluorobiphenyl	69		25 - 119	02/15/16 19:00	02/22/16 15:55	1
2,4,6-Tribromophenol	75		35 - 137	02/15/16 19:00	02/22/16 15:55	1
Terphenyl-d14	98		36 - 134	02/15/16 19:00	02/22/16 15:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Arsenic	4.9		0.58	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Barium	56		0.58	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Beryllium	0.56		0.23	0.051	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Boron	3.9		2.9	0.41	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Cadmium	0.081	J	0.12	0.034	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Calcium	21000	B	12	3.8	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Chromium	16	B	0.58	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Cobalt	9.7		0.29	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Copper	19		0.58	0.13	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Iron	16000	B	12	4.5	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Lead	17		0.29	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Magnesium	14000	B	5.8	2.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Manganese	430		0.58	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Nickel	22		0.58	0.16	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Potassium	930		29	4.8	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Selenium	0.50	J	0.58	0.29	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Sodium	1000		58	7.7	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1
Vanadium	24		0.29	0.085	mg/Kg	☼	02/16/16 15:08	02/19/16 21:06	1
Zinc	65		1.2	0.37	mg/Kg	☼	02/16/16 15:08	02/18/16 17:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.42	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:47	1
Boron	0.45	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:47	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Iron	<0.40		0.40	0.20	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Manganese	0.68		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Silver	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:47	1
Zinc	0.21	J B	0.50	0.020	mg/L	-	02/17/16 14:47	02/18/16 14:47	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.079		0.025	0.010	mg/L	-	02/18/16 08:53	02/20/16 05:28	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/17/16 14:47	02/18/16 14:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/17/16 14:47	02/18/16 14:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 09:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.017	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU	-		02/17/16 15:28	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Benzene	<0.0037		0.0037	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Bromodichloromethane	<0.0037		0.0037	0.00062	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Bromoform	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Carbon tetrachloride	<0.0037		0.0037	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Chlorobenzene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Chloroethane	<0.0037	*	0.0037	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Chloroform	<0.0037		0.0037	0.00072	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Chloromethane	<0.0037		0.0037	0.00089	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Dibromochloromethane	<0.0037		0.0037	0.00043	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,1-Dichloroethane	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,2-Dichloroethane	<0.0037		0.0037	0.00055	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,2-Dichloropropane	<0.0037		0.0037	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,3-Dichloropropane, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Ethylbenzene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00076	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Styrene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00059	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Tetrachloroethene	<0.0037		0.0037	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00086	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00072	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Trichloroethene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Vinyl acetate	<0.0037		0.0037	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Vinyl chloride	<0.0037		0.0037	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1
Xylenes, Total	<0.0074		0.0074	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/13/16 09:15	02/18/16 01:11	1
Dibromofluoromethane	95		75 - 120	02/13/16 09:15	02/18/16 01:11	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	02/13/16 09:15	02/18/16 01:11	1
Toluene-d8 (Surr)	105		75 - 122	02/13/16 09:15	02/18/16 01:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Naphthalene	0.0087	J	0.039	0.0060	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2-Methylnaphthalene	0.020	J	0.039	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Fluorene	0.0075	J	0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Hexachlorobenzene	<0.079		0.079	0.0090	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Phenanthrene	0.062		0.039	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Fluoranthene	0.0082	J	0.039	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Pyrene	0.026	J	0.039	0.0077	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.026	J	0.039	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
Benzo[g,h,i]perylene	0.018	J	0.039	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110	02/15/16 19:00	02/22/16 16:23	1
Phenol-d5	79		31 - 110	02/15/16 19:00	02/22/16 16:23	1
Nitrobenzene-d5	72		25 - 115	02/15/16 19:00	02/22/16 16:23	1
2-Fluorobiphenyl	79		25 - 119	02/15/16 19:00	02/22/16 16:23	1
2,4,6-Tribromophenol	90		35 - 137	02/15/16 19:00	02/22/16 16:23	1
Terphenyl-d14	110		36 - 134	02/15/16 19:00	02/22/16 16:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Arsenic	8.3		0.56	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Barium	29		0.56	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Beryllium	0.52		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Boron	11		2.8	0.39	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Calcium	76000	B ^	110	36	mg/Kg	☼	02/16/16 15:08	02/19/16 21:24	10
Chromium	12	B	0.56	0.097	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Cobalt	10		0.28	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Copper	26		0.56	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Iron	16000	B	11	4.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Lead	12		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Magnesium	32000	B	5.6	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Manganese	380		0.56	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Nickel	27		0.56	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Potassium	1900		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Sodium	410		56	7.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1
Vanadium	17		0.28	0.082	mg/Kg	☼	02/16/16 15:08	02/19/16 21:11	1
Zinc	60		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 17:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:54	1
Boron	0.51		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Cobalt	0.019	J	0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Iron	<0.40		0.40	0.20	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Manganese	1.9		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Nickel	0.045		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Silver	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 14:54	1
Zinc	0.039	J B	0.50	0.020	mg/L	-	02/17/16 14:47	02/18/16 14:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.10		0.025	0.010	mg/L	-	02/18/16 08:53	02/20/16 05:51	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/17/16 14:47	02/18/16 14:20	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/17/16 14:47	02/18/16 14:20	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0093	mg/Kg	☼	02/16/16 16:00	02/17/16 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU	-		02/17/16 15:30	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Bromoform	<0.0039		0.0039	0.00080	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Chloroethane	<0.0039	*	0.0039	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,2-Dichloroethane	<0.0039		0.0039	0.00058	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Vinyl acetate	<0.0039		0.0039	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122	02/13/16 09:15	02/18/16 01:36	1
Dibromofluoromethane	96		75 - 120	02/13/16 09:15	02/18/16 01:36	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/16 09:15	02/18/16 01:36	1
Toluene-d8 (Surr)	102		75 - 122	02/13/16 09:15	02/18/16 01:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Phenanthrene	0.042		0.039	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Anthracene	0.010	J	0.039	0.0065	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Fluoranthene	0.10		0.039	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Pyrene	0.099		0.039	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Butyl benzyl phthalate	0.093	J	0.20	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Benzo[a]anthracene	0.049		0.039	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.068		0.039	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Benzo[b]fluoranthene	0.13		0.039	0.0084	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Benzo[k]fluoranthene	0.046		0.039	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Benzo[a]pyrene	0.060		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Dibenz(a,h)anthracene	0.010	J	0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
Benzo[g,h,i]perylene	0.041		0.039	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	58		25 - 110	02/15/16 19:00	02/22/16 16:52	1
Phenol-d5	62		31 - 110	02/15/16 19:00	02/22/16 16:52	1
Nitrobenzene-d5	56		25 - 115	02/15/16 19:00	02/22/16 16:52	1
2-Fluorobiphenyl	65		25 - 119	02/15/16 19:00	02/22/16 16:52	1
2,4,6-Tribromophenol	79		35 - 137	02/15/16 19:00	02/22/16 16:52	1
Terphenyl-d14	107		36 - 134	02/15/16 19:00	02/22/16 16:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Arsenic	4.0		0.55	0.25	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Barium	60		0.55	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Beryllium	0.56		0.22	0.048	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Boron	6.5		2.7	0.38	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Cadmium	0.16		0.11	0.032	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Calcium	57000	B ^	110	35	mg/Kg	☼	02/16/16 15:08	02/19/16 21:33	10
Chromium	15	B	0.55	0.095	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Cobalt	8.1		0.27	0.062	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Copper	21		0.55	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Iron	14000	B	11	4.2	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Lead	68		0.27	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Magnesium	25000	B	5.5	2.2	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Manganese	290		0.55	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Nickel	22		0.55	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Potassium	1400		27	4.5	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Sodium	1100		55	7.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1
Vanadium	22		0.27	0.080	mg/Kg	☼	02/16/16 15:08	02/19/16 21:28	1
Zinc	75		1.1	0.35	mg/Kg	☼	02/16/16 15:08	02/18/16 17:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 15:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 15:01	1
Boron	0.48	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 15:01	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 15:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 15:01	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 15:01	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 15:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 15:01	1
Manganese	0.18		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 15:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 15:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 15:01	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 15:01	1
Zinc	0.063	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 15:01	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.52		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 05:58	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 14:24	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 14:24	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0098	mg/Kg	☼	02/16/16 16:00	02/17/16 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.50		0.200	0.200	SU			02/17/16 15:32	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Benzene	<0.0043		0.0043	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Bromodichloromethane	<0.0043		0.0043	0.00072	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Bromoform	<0.0043		0.0043	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
2-Butanone (MEK)	<0.0043		0.0043	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Carbon disulfide	<0.0043		0.0043	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Carbon tetrachloride	<0.0043		0.0043	0.00091	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Chlorobenzene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Chloroethane	<0.0043	*	0.0043	0.0018	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Chloroform	<0.0043		0.0043	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Chloromethane	<0.0043		0.0043	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
cis-1,2-Dichloroethene	<0.0043		0.0043	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
cis-1,3-Dichloropropene	<0.0043		0.0043	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Dibromochloromethane	<0.0043		0.0043	0.00049	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,1-Dichloroethane	<0.0043		0.0043	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,2-Dichloroethane	<0.0043		0.0043	0.00063	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,1-Dichloroethene	<0.0043		0.0043	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,2-Dichloropropane	<0.0043		0.0043	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,3-Dichloropropane, Total	<0.0043		0.0043	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Ethylbenzene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
2-Hexanone	<0.0043		0.0043	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Methylene Chloride	<0.0043		0.0043	0.0032	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
4-Methyl-2-pentanone (MIBK)	<0.0043		0.0043	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Methyl tert-butyl ether	<0.0043		0.0043	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Styrene	<0.0043		0.0043	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,1,2,2-Tetrachloroethane	<0.0043		0.0043	0.00068	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Tetrachloroethene	<0.0043		0.0043	0.00089	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Toluene	<0.0043		0.0043	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
trans-1,2-Dichloroethene	<0.0043		0.0043	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
trans-1,3-Dichloropropene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,1,1-Trichloroethane	<0.0043		0.0043	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
1,1,2-Trichloroethane	<0.0043		0.0043	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Trichloroethene	<0.0043		0.0043	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Vinyl acetate	<0.0043		0.0043	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Vinyl chloride	<0.0043		0.0043	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/13/16 09:15	02/18/16 02:01	1
Dibromofluoromethane	96		75 - 120	02/13/16 09:15	02/18/16 02:01	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/13/16 09:15	02/18/16 02:01	1
Toluene-d8 (Surr)	103		75 - 122	02/13/16 09:15	02/18/16 02:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.088	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2-Methylnaphthalene	<0.039		0.039	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Phenanthrene	0.033	J	0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Fluoranthene	0.069		0.039	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Pyrene	0.071		0.039	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Benzo[a]anthracene	0.033	J	0.039	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.047		0.039	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Benzo[b]fluoranthene	0.084		0.039	0.0085	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Benzo[k]fluoranthene	0.036 J		0.039	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Benzo[a]pyrene	0.044		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Indeno[1,2,3-cd]pyrene	0.024 J		0.039	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
Benzo[g,h,i]perylene	0.029 J		0.039	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	67		25 - 110	02/15/16 19:00	02/22/16 17:20	1
Phenol-d5	68		31 - 110	02/15/16 19:00	02/22/16 17:20	1
Nitrobenzene-d5	62		25 - 115	02/15/16 19:00	02/22/16 17:20	1
2-Fluorobiphenyl	69		25 - 119	02/15/16 19:00	02/22/16 17:20	1
2,4,6-Tribromophenol	69		35 - 137	02/15/16 19:00	02/22/16 17:20	1
Terphenyl-d14	111		36 - 134	02/15/16 19:00	02/22/16 17:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Arsenic	4.6		0.57	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Barium	44		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Beryllium	0.49		0.23	0.050	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Boron	7.4		2.9	0.40	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Cadmium	0.21		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Calcium	61000 B ^		110	37	mg/Kg	☼	02/16/16 15:08	02/19/16 21:42	10
Chromium	15 B		0.57	0.099	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Cobalt	8.4		0.29	0.065	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Copper	28		0.57	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Iron	13000 B		11	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Lead	71		0.29	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Magnesium	26000 B		5.7	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Manganese	310		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Nickel	20		0.57	0.16	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Potassium	1300		29	4.7	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Selenium	0.43 J		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Sodium	910		57	7.6	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1
Vanadium	20		0.29	0.084	mg/Kg	☼	02/16/16 15:08	02/19/16 21:37	1
Zinc	90		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 17:44	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.45 J		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 15:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 15:44	1
Boron	0.43 J		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 15:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Iron	<0.40		0.40	0.20	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Lead	0.0082		0.0075	0.0075	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Manganese	0.72		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Silver	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 15:44	1
Zinc	0.12	J B	0.50	0.020	mg/L	-	02/17/16 14:47	02/18/16 15:44	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.017		0.0075	0.0075	mg/L	-	02/18/16 08:53	02/20/16 06:05	1
Manganese	0.15		0.025	0.010	mg/L	-	02/18/16 08:53	02/20/16 06:05	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/17/16 14:47	02/18/16 14:40	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/17/16 14:47	02/18/16 14:40	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 09:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.017	0.0091	mg/Kg	☼	02/16/16 16:00	02/17/16 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.56		0.200	0.200	SU	-		02/17/16 15:34	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/13/16 09:15	02/18/16 02:26	1
Dibromofluoromethane	97		75 - 120	02/13/16 09:15	02/18/16 02:26	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/16 09:15	02/18/16 02:26	1
Toluene-d8 (Surr)	105		75 - 122	02/13/16 09:15	02/18/16 02:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.083	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2-Methylnaphthalene	<0.037		0.037	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Phenanthrene	0.0072	J	0.037	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Benzo[a]anthracene	0.0051	J	0.037	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	02/15/16 19:00	02/22/16 17:49	1
Phenol-d5	71		31 - 110	02/15/16 19:00	02/22/16 17:49	1
Nitrobenzene-d5	64		25 - 115	02/15/16 19:00	02/22/16 17:49	1
2-Fluorobiphenyl	70		25 - 119	02/15/16 19:00	02/22/16 17:49	1
2,4,6-Tribromophenol	73		35 - 137	02/15/16 19:00	02/22/16 17:49	1
Terphenyl-d14	106		36 - 134	02/15/16 19:00	02/22/16 17:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Arsenic	4.7		0.57	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Barium	15		0.57	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Beryllium	0.34		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Boron	6.5		2.9	0.40	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Calcium	120000	B ^	110	37	mg/Kg	☼	02/16/16 15:08	02/19/16 21:51	10
Chromium	7.5	B	0.57	0.098	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Cobalt	6.6		0.29	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Copper	19		0.57	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Iron	12000	B	11	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Lead	8.3		0.29	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Magnesium	51000	B	5.7	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Manganese	630		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Nickel	15		0.57	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Potassium	1000		29	4.7	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Selenium	0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Sodium	290		57	7.5	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1
Vanadium	13		0.29	0.083	mg/Kg	☼	02/16/16 15:08	02/19/16 21:46	1
Zinc	33		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 17:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:16	1
Boron	0.50		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 16:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:16	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:16	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 16:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 16:16	1
Manganese	1.9		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:16	1
Nickel	0.028		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 16:16	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:16	1
Zinc	0.61	B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 16:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.044		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 06:11	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 14:44	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 14:44	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0096	mg/Kg	☼	02/16/16 16:00	02/17/16 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			02/17/16 15:36	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/13/16 09:15	02/18/16 02:52	1
Dibromofluoromethane	97		75 - 120	02/13/16 09:15	02/18/16 02:52	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/13/16 09:15	02/18/16 02:52	1
Toluene-d8 (Surr)	106		75 - 122	02/13/16 09:15	02/18/16 02:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Naphthalene	0.021	J	0.037	0.0058	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Hexachlorocyclopentadiene	<0.76	*	0.76	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2-Methylnaphthalene	0.074		0.037	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,4-Dinitrophenol	<0.76	*	0.76	0.66	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Fluorene	0.0063	J	0.037	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Phenanthrene	0.060		0.037	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Fluoranthene	<0.037		0.037	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Pyrene	0.023	J	0.037	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0098	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
Benzo[g,h,i]perylene	0.017	J	0.037	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110	02/15/16 19:00	02/22/16 18:18	1
Phenol-d5	77		31 - 110	02/15/16 19:00	02/22/16 18:18	1
Nitrobenzene-d5	72		25 - 115	02/15/16 19:00	02/22/16 18:18	1
2-Fluorobiphenyl	76		25 - 119	02/15/16 19:00	02/22/16 18:18	1
2,4,6-Tribromophenol	82		35 - 137	02/15/16 19:00	02/22/16 18:18	1
Terphenyl-d14	121		36 - 134	02/15/16 19:00	02/22/16 18:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Arsenic	6.1		0.57	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Barium	47		0.57	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Boron	14		2.9	0.40	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Calcium	67000	B ^	110	37	mg/Kg	☼	02/16/16 15:08	02/19/16 22:00	10
Chromium	18	B	0.57	0.098	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Cobalt	13		0.29	0.065	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Copper	24		0.57	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Lead	12		0.29	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Magnesium	23000	B	5.7	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Manganese	310		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Nickel	35		0.57	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Potassium	2600		29	4.7	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Sodium	190		57	7.5	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1
Vanadium	22		0.29	0.083	mg/Kg	☼	02/16/16 15:08	02/19/16 21:55	1
Zinc	59		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 17:54	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.61		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:23	1
Boron	0.49	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 16:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:23	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:23	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 16:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 16:23	1
Manganese	1.8		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:23	1
Nickel	0.035		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 16:23	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:23	1
Zinc	1.0	B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 16:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.32		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 06:18	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 14:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 14:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.017	0.0090	mg/Kg	☼	02/16/16 16:00	02/17/16 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			02/17/16 15:38	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
2-Butanone (MEK)	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Chlorobenzene	<0.0038		0.0038	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Chloroethane	<0.0038	*	0.0038	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Dibromochloromethane	<0.0038		0.0038	0.00044	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Styrene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00074	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Vinyl acetate	<0.0038		0.0038	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/13/16 09:15	02/18/16 03:17	1
Dibromofluoromethane	94		75 - 120	02/13/16 09:15	02/18/16 03:17	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/13/16 09:15	02/18/16 03:17	1
Toluene-d8 (Surr)	106		75 - 122	02/13/16 09:15	02/18/16 03:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Naphthalene	0.019	J	0.038	0.0059	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2-Methylnaphthalene	0.047		0.038	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Fluorene	0.0065	J	0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Phenanthrene	0.070		0.038	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Fluoranthene	0.0071	J	0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Pyrene	0.026	J	0.038	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 86.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.038	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
Benzo[g,h,i]perylene	0.017	J	0.038	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/15/16 19:00	02/22/16 18:46	1
Phenol-d5	79		31 - 110	02/15/16 19:00	02/22/16 18:46	1
Nitrobenzene-d5	72		25 - 115	02/15/16 19:00	02/22/16 18:46	1
2-Fluorobiphenyl	78		25 - 119	02/15/16 19:00	02/22/16 18:46	1
2,4,6-Tribromophenol	83		35 - 137	02/15/16 19:00	02/22/16 18:46	1
Terphenyl-d14	130		36 - 134	02/15/16 19:00	02/22/16 18:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Arsenic	5.9		0.57	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Barium	45		0.57	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Beryllium	0.63		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Boron	14		2.8	0.40	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Calcium	65000	B ^	110	37	mg/Kg	☼	02/16/16 15:08	02/19/16 22:18	10
Chromium	17	B	0.57	0.098	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Cobalt	12		0.28	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Copper	24		0.57	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Iron	18000	B	11	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Lead	12		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Magnesium	23000	B	5.7	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Manganese	320		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Nickel	33		0.57	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Potassium	2500		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Selenium	0.39	J	0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Sodium	190		57	7.5	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1
Vanadium	21		0.28	0.083	mg/Kg	☼	02/16/16 15:08	02/19/16 22:04	1
Zinc	55		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 17:59	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.53		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:29	1
Boron	0.47	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:29	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 86.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 16:29	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:29	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:29	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 16:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 16:29	1
Manganese	1.8		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:29	1
Nickel	0.041		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 16:29	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:29	1
Zinc	0.76	B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 16:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.48		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 06:25	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 15:01	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 15:01	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.018	0.0096	mg/Kg	☼	02/16/16 16:00	02/17/16 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			02/17/16 15:41	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Date Collected: 02/12/16 11:35

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.014	0.0027	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Benzene	<0.0035		0.0035	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Bromodichloromethane	<0.0035		0.0035	0.00059	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Bromoform	<0.0035		0.0035	0.00071	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
2-Butanone (MEK)	<0.0035		0.0035	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Carbon disulfide	<0.0035		0.0035	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Carbon tetrachloride	<0.0035		0.0035	0.00075	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Chlorobenzene	<0.0035		0.0035	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Chloroethane	<0.0035	*	0.0035	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Chloroform	<0.0035		0.0035	0.00068	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Chloromethane	<0.0035		0.0035	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00071	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00080	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Dibromochloromethane	<0.0035		0.0035	0.00040	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,1-Dichloroethane	<0.0035		0.0035	0.00072	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,2-Dichloroethane	<0.0035		0.0035	0.00052	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,1-Dichloroethene	<0.0035		0.0035	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,2-Dichloropropane	<0.0035		0.0035	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,3-Dichloropropane, Total	<0.0035		0.0035	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Ethylbenzene	<0.0035		0.0035	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Methylene Chloride	<0.0035		0.0035	0.0026	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00072	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Styrene	<0.0035		0.0035	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.00056	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Tetrachloroethene	<0.0035		0.0035	0.00073	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Toluene	<0.0035		0.0035	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00068	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Trichloroethene	<0.0035		0.0035	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Vinyl acetate	<0.0035		0.0035	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Vinyl chloride	<0.0035		0.0035	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1
Xylenes, Total	<0.0070		0.0070	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122	02/13/16 09:15	02/18/16 03:43	1
Dibromofluoromethane	98		75 - 120	02/13/16 09:15	02/18/16 03:43	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	02/13/16 09:15	02/18/16 03:43	1
Toluene-d8 (Surr)	104		75 - 122	02/13/16 09:15	02/18/16 03:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Date Collected: 02/12/16 11:35

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Phenanthrene	0.029	J	0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Fluoranthene	0.042		0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Pyrene	0.045		0.038	0.0077	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Benzo[a]anthracene	0.020	J	0.038	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Date Collected: 02/12/16 11:35

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.023	J	0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Benzo[b]fluoranthene	0.035	J	0.038	0.0083	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Benzo[k]fluoranthene	0.015	J	0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Benzo[a]pyrene	0.014	J	0.038	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110	02/15/16 19:00	02/22/16 19:15	1
Phenol-d5	73		31 - 110	02/15/16 19:00	02/22/16 19:15	1
Nitrobenzene-d5	66		25 - 115	02/15/16 19:00	02/22/16 19:15	1
2-Fluorobiphenyl	72		25 - 119	02/15/16 19:00	02/22/16 19:15	1
2,4,6-Tribromophenol	73		35 - 137	02/15/16 19:00	02/22/16 19:15	1
Terphenyl-d14	116		36 - 134	02/15/16 19:00	02/22/16 19:15	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Arsenic	4.4		0.56	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Barium	100		0.56	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Beryllium	0.85		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Boron	4.4		2.8	0.39	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Calcium	8200	B	11	3.6	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Chromium	21	B	0.56	0.097	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Copper	17		0.56	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Iron	16000	B	11	4.3	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Lead	16		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Magnesium	7200	B	5.6	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Manganese	230		0.56	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Nickel	33		0.56	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Potassium	1500		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Sodium	800		56	7.4	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1
Vanadium	26		0.28	0.082	mg/Kg	☼	02/16/16 15:08	02/19/16 22:22	1
Zinc	76		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 18:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.51		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:36	1
Boron	0.47	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Date Collected: 02/12/16 11:35

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 16:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:36	1
Cobalt	0.030		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:36	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 16:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 16:36	1
Manganese	6.7		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:36	1
Nickel	0.029		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 16:36	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:36	1
Zinc	0.98	B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 16:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.10		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 06:32	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 15:05	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 15:05	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.034		0.018	0.0094	mg/Kg	☼	02/16/16 16:00	02/17/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.45		0.200	0.200	SU			02/17/16 15:45	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.029		0.016	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Benzene	<0.0040		0.0040	0.00089	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/13/16 09:15	02/18/16 04:09	1
Dibromofluoromethane	96		75 - 120	02/13/16 09:15	02/18/16 04:09	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	02/13/16 09:15	02/18/16 04:09	1
Toluene-d8 (Surr)	103		75 - 122	02/13/16 09:15	02/18/16 04:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Hexachlorocyclopentadiene	<0.75 *		0.75	0.21	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,4-Dinitrophenol	<0.75 *		0.75	0.65	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Acenaphthene	<0.037		0.037	0.0066	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Phenanthrene	0.0060	J	0.037	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Fluoranthene	<0.037		0.037	0.0068	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Pyrene	0.0076	J	0.037	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110	02/15/16 19:00	02/22/16 19:44	1
Phenol-d5	79		31 - 110	02/15/16 19:00	02/22/16 19:44	1
Nitrobenzene-d5	71		25 - 115	02/15/16 19:00	02/22/16 19:44	1
2-Fluorobiphenyl	79		25 - 119	02/15/16 19:00	02/22/16 19:44	1
2,4,6-Tribromophenol	72		35 - 137	02/15/16 19:00	02/22/16 19:44	1
Terphenyl-d14	135	X	36 - 134	02/15/16 19:00	02/22/16 19:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Arsenic	3.1		0.55	0.25	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Barium	53		0.55	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Beryllium	0.57		0.22	0.048	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Boron	8.1		2.7	0.38	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Cadmium	0.073	J	0.11	0.032	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Calcium	64000	B ^	110	35	mg/Kg	☼	02/16/16 15:08	02/19/16 22:32	10
Chromium	16	B	0.55	0.094	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Cobalt	12		0.27	0.062	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Copper	20		0.55	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Iron	15000	B	11	4.2	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Lead	9.7		0.27	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Magnesium	25000	B	5.5	2.2	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Manganese	340		0.55	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Nickel	30		0.55	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Potassium	1800		27	4.5	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Selenium	0.65		0.55	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Sodium	1200		55	7.2	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1
Vanadium	22		0.27	0.080	mg/Kg	☼	02/16/16 15:08	02/19/16 22:27	1
Zinc	68		1.1	0.35	mg/Kg	☼	02/16/16 15:08	02/18/16 18:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.33	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:43	1
Boron	0.44	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 16:43	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:43	1
Cobalt	0.018	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:43	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 16:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 16:43	1
Manganese	2.3		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:43	1
Nickel	0.029		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 16:43	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:43	1
Zinc	0.42	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 16:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.42		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 06:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 15:09	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 15:09	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0094	mg/Kg	☼	02/16/16 16:00	02/17/16 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			02/17/16 15:47	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Date Collected: 02/12/16 12:50

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.053		0.016	0.0032	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Benzene	<0.0041		0.0041	0.00091	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Bromodichloromethane	<0.0041		0.0041	0.00069	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Bromoform	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
2-Butanone (MEK)	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Carbon tetrachloride	<0.0041		0.0041	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Chlorobenzene	<0.0041		0.0041	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Chloroethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Chloroform	<0.0041		0.0041	0.00080	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Chloromethane	<0.0041		0.0041	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,1-Dichloroethane	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,2-Dichloroethane	<0.0041		0.0041	0.00061	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,3-Dichloropropene, Total	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00085	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Styrene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00065	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Tetrachloroethene	<0.0041		0.0041	0.00086	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00080	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Vinyl acetate	<0.0041		0.0041	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Vinyl chloride	<0.0041		0.0041	0.00098	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1
Xylenes, Total	<0.0082		0.0082	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122	02/13/16 09:15	02/18/16 04:34	1
Dibromofluoromethane	98		75 - 120	02/13/16 09:15	02/18/16 04:34	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	02/13/16 09:15	02/18/16 04:34	1
Toluene-d8 (Surr)	102		75 - 122	02/13/16 09:15	02/18/16 04:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Date Collected: 02/12/16 12:50

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Naphthalene	0.030	J	0.039	0.0060	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Hexachlorocyclopentadiene	<0.79	*	0.79	0.23	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2-Methylnaphthalene	0.045		0.039	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Acenaphthene	0.011	J	0.039	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Fluorene	0.015	J	0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Phenanthrene	0.13		0.039	0.0055	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Anthracene	0.025	J	0.039	0.0065	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Fluoranthene	0.14		0.039	0.0073	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Pyrene	0.16		0.039	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Benzo[a]anthracene	0.064		0.039	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Date Collected: 02/12/16 12:50

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.081		0.039	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Benzo[b]fluoranthene	0.12		0.039	0.0084	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Benzo[k]fluoranthene	0.040		0.039	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Benzo[a]pyrene	0.050		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Indeno[1,2,3-cd]pyrene	0.029	J	0.039	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
Benzo[g,h,i]perylene	0.025	J	0.039	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		25 - 110	02/15/16 19:00	02/22/16 20:13	1
Phenol-d5	84		31 - 110	02/15/16 19:00	02/22/16 20:13	1
Nitrobenzene-d5	76		25 - 115	02/15/16 19:00	02/22/16 20:13	1
2-Fluorobiphenyl	83		25 - 119	02/15/16 19:00	02/22/16 20:13	1
2,4,6-Tribromophenol	101		35 - 137	02/15/16 19:00	02/22/16 20:13	1
Terphenyl-d14	145	X	36 - 134	02/15/16 19:00	02/22/16 20:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Arsenic	4.6		0.57	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Barium	86		0.57	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Beryllium	0.68		0.23	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Boron	6.5		2.9	0.40	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Cadmium	0.12		0.11	0.033	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Calcium	21000	B ^	11	3.7	mg/Kg	☼	02/16/16 15:08	02/19/16 22:36	1
Chromium	17	B	0.57	0.098	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Cobalt	11		0.29	0.065	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Copper	20		0.57	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Iron	16000	B	11	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Lead	31		0.29	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Magnesium	13000	B	5.7	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Manganese	290		0.57	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Nickel	31		0.57	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Potassium	1600		29	4.7	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Selenium	0.40	J	0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Sodium	330		57	7.5	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1
Vanadium	26		0.29	0.083	mg/Kg	☼	02/16/16 15:08	02/19/16 22:36	1
Zinc	79		1.1	0.36	mg/Kg	☼	02/16/16 15:08	02/18/16 18:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.73		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:50	1
Boron	0.52		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Date Collected: 02/12/16 12:50

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 16:50	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:50	1
Cobalt	0.030		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:50	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 16:50	1
Lead	0.0088		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 16:50	1
Manganese	8.5		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:50	1
Nickel	0.019	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:50	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 16:50	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 16:50	1
Zinc	1.1	B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 16:50	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.067		0.0075	0.0075	mg/L		02/18/16 08:53	02/20/16 06:45	1
Manganese	1.3		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 06:45	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 15:13	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 15:13	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.017	0.0091	mg/Kg	☼	02/16/16 16:00	02/17/16 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			02/17/16 15:49	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Date Collected: 02/12/16 12:53

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Bromodichloromethane	<0.0042		0.0042	0.00072	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Carbon tetrachloride	<0.0042		0.0042	0.00091	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Chloroethane	<0.0042	*	0.0042	0.0018	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Chloroform	<0.0042		0.0042	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Ethylbenzene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Vinyl acetate	<0.0042		0.0042	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1
Xylenes, Total	<0.0085		0.0085	0.0016	mg/Kg	☼	02/13/16 09:15	02/18/16 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/13/16 09:15	02/18/16 05:00	1
Dibromofluoromethane	98		75 - 120	02/13/16 09:15	02/18/16 05:00	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134	02/13/16 09:15	02/18/16 05:00	1
Toluene-d8 (Surr)	105		75 - 122	02/13/16 09:15	02/18/16 05:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.086	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Date Collected: 02/12/16 12:53

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Hexachlorocyclopentadiene	<0.78	*	0.78	0.22	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Pyrene	0.010	J	0.038	0.0077	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Date Collected: 02/12/16 12:53

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110	02/15/16 19:00	02/22/16 20:41	1
Phenol-d5	74		31 - 110	02/15/16 19:00	02/22/16 20:41	1
Nitrobenzene-d5	68		25 - 115	02/15/16 19:00	02/22/16 20:41	1
2-Fluorobiphenyl	75		25 - 119	02/15/16 19:00	02/22/16 20:41	1
2,4,6-Tribromophenol	68		35 - 137	02/15/16 19:00	02/22/16 20:41	1
Terphenyl-d14	124		36 - 134	02/15/16 19:00	02/22/16 20:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Arsenic	10		0.56	0.26	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Barium	44		0.56	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Beryllium	0.68		0.22	0.049	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Boron	9.7		2.8	0.39	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Calcium	32000	B ^	11	3.6	mg/Kg	☼	02/16/16 15:08	02/19/16 22:41	1
Chromium	16	B	0.56	0.096	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Cobalt	13		0.28	0.063	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Copper	24		0.56	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Iron	19000	B	11	4.3	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Lead	11		0.28	0.14	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Magnesium	19000	B	5.6	2.3	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Manganese	500		0.56	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Nickel	32		0.56	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Potassium	2000		28	4.6	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Sodium	280		56	7.4	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1
Vanadium	26		0.28	0.082	mg/Kg	☼	02/16/16 15:08	02/19/16 22:41	1
Zinc	64		1.1	0.35	mg/Kg	☼	02/16/16 15:08	02/18/16 18:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.21	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 16:56	1
Boron	0.40	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Date Collected: 02/12/16 12:53

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Cobalt	0.030		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Iron	<0.40		0.40	0.20	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Manganese	1.9		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Nickel	0.040		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Silver	<0.025		0.025	0.010	mg/L	-	02/17/16 14:47	02/18/16 16:56	1
Zinc	0.14	J B	0.50	0.020	mg/L	-	02/17/16 14:47	02/18/16 16:56	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.76		0.025	0.010	mg/L	-	02/18/16 08:53	02/20/16 06:52	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/17/16 14:47	02/18/16 15:17	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/17/16 14:47	02/18/16 15:17	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/17/16 16:15	02/18/16 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.018	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU	-		02/17/16 15:51	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.011		0.011	0.0021	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Benzene	<0.0028		0.0028	0.00061	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Bromodichloromethane	<0.0028		0.0028	0.00047	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Bromoform	<0.0028		0.0028	0.00056	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Bromomethane	<0.0028		0.0028	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
2-Butanone (MEK)	<0.0028		0.0028	0.00099	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Carbon disulfide	<0.0028		0.0028	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Carbon tetrachloride	<0.0028		0.0028	0.00059	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Chlorobenzene	<0.0028		0.0028	0.00065	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Chloroethane	<0.0028	*	0.0028	0.0012	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Chloroform	<0.0028		0.0028	0.00054	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Chloromethane	<0.0028		0.0028	0.00066	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
cis-1,2-Dichloroethene	<0.0028		0.0028	0.00056	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
cis-1,3-Dichloropropene	<0.0028		0.0028	0.00063	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Dibromochloromethane	<0.0028		0.0028	0.00032	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,1-Dichloroethane	<0.0028		0.0028	0.00057	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,2-Dichloroethane	<0.0028		0.0028	0.00041	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,1-Dichloroethene	<0.0028		0.0028	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,2-Dichloropropane	<0.0028		0.0028	0.00073	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,3-Dichloropropane, Total	<0.0028		0.0028	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Ethylbenzene	<0.0028		0.0028	0.00069	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
2-Hexanone	<0.0028		0.0028	0.00086	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Methylene Chloride	<0.0028		0.0028	0.0021	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
4-Methyl-2-pentanone (MIBK)	<0.0028		0.0028	0.00057	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Methyl tert-butyl ether	<0.0028		0.0028	0.00065	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Styrene	<0.0028		0.0028	0.00065	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,1,2,2-Tetrachloroethane	<0.0028	*	0.0028	0.00044	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Tetrachloroethene	<0.0028		0.0028	0.00058	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Toluene	<0.0028		0.0028	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
trans-1,2-Dichloroethene	<0.0028		0.0028	0.00069	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
trans-1,3-Dichloropropene	<0.0028		0.0028	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,1,1-Trichloroethane	<0.0028		0.0028	0.00064	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
1,1,2-Trichloroethane	<0.0028		0.0028	0.00054	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Trichloroethene	<0.0028		0.0028	0.00075	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Vinyl acetate	<0.0028		0.0028	0.00074	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Vinyl chloride	<0.0028		0.0028	0.00066	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1
Xylenes, Total	<0.0055		0.0055	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 122	02/13/16 09:15	02/18/16 05:25	1
Dibromofluoromethane	97		75 - 120	02/13/16 09:15	02/18/16 05:25	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	02/13/16 09:15	02/18/16 05:25	1
Toluene-d8 (Surr)	119		75 - 122	02/13/16 09:15	02/18/16 05:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.080	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Hexachlorocyclopentadiene	<0.73	*	0.73	0.21	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2-Methylnaphthalene	0.0088	J	0.036	0.0067	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,4-Dinitrophenol	<0.73	*	0.73	0.64	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Fluorene	0.0063	J	0.036	0.0051	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Phenanthrene	0.036		0.036	0.0050	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Fluoranthene	0.0082	J	0.036	0.0067	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Pyrene	0.021	J	0.036	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		25 - 110	02/15/16 19:00	02/22/16 21:10	1
Phenol-d5	83		31 - 110	02/15/16 19:00	02/22/16 21:10	1
Nitrobenzene-d5	77		25 - 115	02/15/16 19:00	02/22/16 21:10	1
2-Fluorobiphenyl	83		25 - 119	02/15/16 19:00	02/22/16 21:10	1
2,4,6-Tribromophenol	95		35 - 137	02/15/16 19:00	02/22/16 21:10	1
Terphenyl-d14	140	X	36 - 134	02/15/16 19:00	02/22/16 21:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Arsenic	4.2		0.54	0.25	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Barium	7.7		0.54	0.099	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Beryllium	0.21	J	0.22	0.047	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Boron	4.5		2.7	0.38	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Cadmium	0.13		0.11	0.031	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Calcium	92000	B ^	110	35	mg/Kg	☼	02/16/16 15:08	02/19/16 22:51	10
Chromium	6.5	B	0.54	0.093	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Cobalt	5.1		0.27	0.061	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Copper	11		0.54	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Iron	8000	B	11	4.2	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Lead	5.9		0.27	0.13	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Magnesium	37000	B	5.4	2.2	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Manganese	330		0.54	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Nickel	12		0.54	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Potassium	570		27	4.4	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Sodium	230		54	7.2	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1
Vanadium	9.7		0.27	0.079	mg/Kg	☼	02/16/16 15:08	02/19/16 22:46	1
Zinc	51		1.1	0.34	mg/Kg	☼	02/16/16 15:08	02/18/16 18:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.39	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 17:33	1
Boron	0.48	J	0.50	0.050	mg/L		02/17/16 14:47	02/18/16 17:33	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 89.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:33	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:33	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 17:33	1
Manganese	2.6		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:33	1
Nickel	0.015	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 17:33	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:33	1
Zinc	0.33	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 17:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.016	J	0.025	0.010	mg/L		02/18/16 08:53	02/20/16 07:15	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 15:21	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 15:21	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0097	mg/Kg	☼	02/16/16 16:00	02/17/16 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			02/17/16 15:54	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Benzene	<0.0040		0.0040	0.00090	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Bromodichloromethane	<0.0040		0.0040	0.00068	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Bromoform	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Carbon tetrachloride	<0.0040		0.0040	0.00086	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Chlorobenzene	<0.0040		0.0040	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Chloroethane	<0.0040	*	0.0040	0.0017	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Chloroform	<0.0040		0.0040	0.00079	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Chloromethane	<0.0040		0.0040	0.00097	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00082	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00092	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,1-Dichloroethane	<0.0040		0.0040	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,2-Dichloroethane	<0.0040		0.0040	0.00060	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,1-Dichloroethene	<0.0040		0.0040	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,2-Dichloropropane	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Ethylbenzene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Methylene Chloride	<0.0040		0.0040	0.0031	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00083	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00095	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Styrene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00064	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Tetrachloroethene	<0.0040		0.0040	0.00084	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00094	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00078	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Vinyl acetate	<0.0040		0.0040	0.0011	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Vinyl chloride	<0.0040		0.0040	0.00096	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/13/16 09:15	02/18/16 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 122	02/13/16 09:15	02/18/16 05:51	1
Dibromofluoromethane	98		75 - 120	02/13/16 09:15	02/18/16 05:51	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 134	02/13/16 09:15	02/18/16 05:51	1
Toluene-d8 (Surr)	104		75 - 122	02/13/16 09:15	02/18/16 05:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.090	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Hexachlorocyclopentadiene	<0.81	*	0.81	0.23	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2-Methylnaphthalene	0.018	J	0.040	0.0074	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,4-Dinitrophenol	<0.81	*	0.81	0.71	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Fluorene	0.0099	J	0.040	0.0057	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Phenanthrene	0.053		0.040	0.0056	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Fluoranthene	0.0087	J	0.040	0.0075	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Pyrene	0.025	J	0.040	0.0080	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.018	J	0.040	0.011	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
Benzo[g,h,i]perylene	0.017	J	0.040	0.013	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:00	02/22/16 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		25 - 110	02/15/16 19:00	02/22/16 21:39	1
Phenol-d5	76		31 - 110	02/15/16 19:00	02/22/16 21:39	1
Nitrobenzene-d5	70		25 - 115	02/15/16 19:00	02/22/16 21:39	1
2-Fluorobiphenyl	77		25 - 119	02/15/16 19:00	02/22/16 21:39	1
2,4,6-Tribromophenol	81		35 - 137	02/15/16 19:00	02/22/16 21:39	1
Terphenyl-d14	133		36 - 134	02/15/16 19:00	02/22/16 21:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Arsenic	4.6		0.59	0.27	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Barium	53		0.59	0.11	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Beryllium	0.73		0.23	0.051	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Boron	15		2.9	0.41	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Calcium	64000	B ^	120	38	mg/Kg	☼	02/16/16 15:08	02/19/16 23:00	10
Chromium	19	B	0.59	0.10	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Cobalt	13		0.29	0.066	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Copper	20		0.59	0.13	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Iron	18000	B	12	4.5	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Lead	11		0.29	0.15	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Magnesium	22000	B	5.9	2.4	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Manganese	300		0.59	0.12	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Nickel	35		0.59	0.16	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Potassium	2900		29	4.8	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Selenium	0.38	J	0.59	0.29	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Sodium	230		59	7.7	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1
Vanadium	23		0.29	0.085	mg/Kg	☼	02/16/16 15:08	02/19/16 22:55	1
Zinc	55		1.2	0.37	mg/Kg	☼	02/16/16 15:08	02/18/16 18:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.71		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 17:40	1
Boron	0.56		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 81.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 17:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:40	1
Cobalt	0.011	J	0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:40	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 17:40	1
Manganese	1.9		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:40	1
Nickel	0.030		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 17:40	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 17:40	1
Zinc	0.046	J B	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 17:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.21		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 07:21	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 15:25	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 15:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.020	0.011	mg/Kg	☼	02/16/16 16:00	02/17/16 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.67		0.200	0.200	SU			02/17/16 15:56	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

GC/MS VOA

Prep Batch: 322961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	5035	
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	5035	
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	5035	
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	5035	
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	5035	
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	5035	
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	5035	
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	5035	
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	5035	
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	5035	
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	5035	
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	5035	
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	5035	
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	5035	
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	5035	
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	5035	
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	5035	

Analysis Batch: 323207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	8260B	322961
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	8260B	322961
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	8260B	322961
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	8260B	322961
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	8260B	322961
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	8260B	322961
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	8260B	322961
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	8260B	322961
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	8260B	322961
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	8260B	322961
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	8260B	322961
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	8260B	322961
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	8260B	322961
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	8260B	322961
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	8260B	322961
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	8260B	322961
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	8260B	322961
LCS 500-323207/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323207/28	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323207/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 322938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	3541	
500-107556-1 MS	2746-01-B05 (0-8)	Total/NA	Solid	3541	
500-107556-1 MSD	2746-01-B05 (0-8)	Total/NA	Solid	3541	
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	3541	
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

GC/MS Semi VOA (Continued)

Prep Batch: 322938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	3541	
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	3541	
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	3541	
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	3541	
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	3541	
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	3541	
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	3541	
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	3541	
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	3541	
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	3541	
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	3541	
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	3541	
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	3541	
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	3541	
LCS 500-322938/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322938/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 323893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	8270D	322938
500-107556-1 MS	2746-01-B05 (0-8)	Total/NA	Solid	8270D	322938
500-107556-1 MSD	2746-01-B05 (0-8)	Total/NA	Solid	8270D	322938
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	8270D	322938
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	8270D	322938
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	8270D	322938
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	8270D	322938
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	8270D	322938
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	8270D	322938
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	8270D	322938
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	8270D	322938
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	8270D	322938
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	8270D	322938
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	8270D	322938
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	8270D	322938
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	8270D	322938
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	8270D	322938
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	8270D	322938
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	8270D	322938
LCS 500-322938/2-A	Lab Control Sample	Total/NA	Solid	8270D	322938
MB 500-322938/1-A	Method Blank	Total/NA	Solid	8270D	322938

Metals

Prep Batch: 323063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	7471B	
500-107556-1 DU	2746-01-B05 (0-8)	Total/NA	Solid	7471B	
500-107556-1 MS	2746-01-B05 (0-8)	Total/NA	Solid	7471B	
500-107556-1 MSD	2746-01-B05 (0-8)	Total/NA	Solid	7471B	
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	7471B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Metals (Continued)

Prep Batch: 323063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	7471B	
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	7471B	
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	7471B	
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	7471B	
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	7471B	
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	7471B	
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	7471B	
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	7471B	
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	7471B	
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	7471B	
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	7471B	
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	7471B	
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	7471B	
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	7471B	
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	7471B	
LCS 500-323063/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-323063/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 323078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	3050B	
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	3050B	
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	3050B	
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	3050B	
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	3050B	
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	3050B	
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	3050B	
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	3050B	
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	3050B	
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	3050B	
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	3050B	
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	3050B	
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	3050B	
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	3050B	
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	3050B	
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	3050B	
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	3050B	
LCS 500-323078/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-323078/1-A	Method Blank	Total/NA	Solid	3050B	

Leach Batch: 323088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	TCLP	Solid	1311	
500-107556-2	2746-01-B05 (8-16)	TCLP	Solid	1311	
500-107556-2 DU	2746-01-B05 (8-16)	TCLP	Solid	1311	
500-107556-2 MS	2746-01-B05 (8-16)	TCLP	Solid	1311	
500-107556-3	2746-01-B05 (24-30)	TCLP	Solid	1311	
500-107556-4	2746-01-B05 (16-24)	TCLP	Solid	1311	
500-107556-5	2746-01-B06 (0-8)	TCLP	Solid	1311	
500-107556-6	2746-01-B06 (8-16)	TCLP	Solid	1311	
500-107556-7	2746-01-B07 (0-8)	TCLP	Solid	1311	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Metals (Continued)

Leach Batch: 323088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-7 DU	2746-01-B07 (0-8)	TCLP	Solid	1311	
500-107556-7 MS	2746-01-B07 (0-8)	TCLP	Solid	1311	
500-107556-8	2746-01-B07 (0-8)D	TCLP	Solid	1311	
500-107556-9	2746-01-B07 (8-16)	TCLP	Solid	1311	
500-107556-10	2746-01-B07 (16-24)	TCLP	Solid	1311	
500-107556-11	2746-01-B07 (24-30)	TCLP	Solid	1311	
500-107556-12	2746-01-B08 (0-7)	TCLP	Solid	1311	
500-107556-13	2746-01-B08 (7-14)	TCLP	Solid	1311	
500-107556-14	2746-01-B09 (0-8)	TCLP	Solid	1311	
500-107556-15	2746-01-B09 (8-16)	TCLP	Solid	1311	
500-107556-16	2746-01-B09 (16-24)	TCLP	Solid	1311	
500-107556-17	2746-01-B09 (24-30)	TCLP	Solid	1311	
LB 500-323088/1-C	Method Blank	TCLP	Solid	1311	
LB 500-323088/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 323102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	SPLP East	Solid	1312	
500-107556-1 DU	2746-01-B05 (0-8)	SPLP East	Solid	1312	
500-107556-1 MS	2746-01-B05 (0-8)	SPLP East	Solid	1312	
500-107556-2	2746-01-B05 (8-16)	SPLP East	Solid	1312	
500-107556-3	2746-01-B05 (24-30)	SPLP East	Solid	1312	
500-107556-4	2746-01-B05 (16-24)	SPLP East	Solid	1312	
500-107556-5	2746-01-B06 (0-8)	SPLP East	Solid	1312	
500-107556-6	2746-01-B06 (8-16)	SPLP East	Solid	1312	
500-107556-7	2746-01-B07 (0-8)	SPLP East	Solid	1312	
500-107556-8	2746-01-B07 (0-8)D	SPLP East	Solid	1312	
500-107556-9	2746-01-B07 (8-16)	SPLP East	Solid	1312	
500-107556-10	2746-01-B07 (16-24)	SPLP East	Solid	1312	
500-107556-11	2746-01-B07 (24-30)	SPLP East	Solid	1312	
500-107556-12	2746-01-B08 (0-7)	SPLP East	Solid	1312	
500-107556-13	2746-01-B08 (7-14)	SPLP East	Solid	1312	
500-107556-14	2746-01-B09 (0-8)	SPLP East	Solid	1312	
500-107556-15	2746-01-B09 (8-16)	SPLP East	Solid	1312	
500-107556-16	2746-01-B09 (16-24)	SPLP East	Solid	1312	
500-107556-17	2746-01-B09 (24-30)	SPLP East	Solid	1312	
LB 500-323102/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 323225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	TCLP	Solid	7470A	323088
500-107556-2	2746-01-B05 (8-16)	TCLP	Solid	7470A	323088
500-107556-2 DU	2746-01-B05 (8-16)	TCLP	Solid	7470A	323088
500-107556-2 MS	2746-01-B05 (8-16)	TCLP	Solid	7470A	323088
500-107556-3	2746-01-B05 (24-30)	TCLP	Solid	7470A	323088
500-107556-4	2746-01-B05 (16-24)	TCLP	Solid	7470A	323088
500-107556-5	2746-01-B06 (0-8)	TCLP	Solid	7470A	323088
500-107556-6	2746-01-B06 (8-16)	TCLP	Solid	7470A	323088
500-107556-7	2746-01-B07 (0-8)	TCLP	Solid	7470A	323088
500-107556-8	2746-01-B07 (0-8)D	TCLP	Solid	7470A	323088
500-107556-9	2746-01-B07 (8-16)	TCLP	Solid	7470A	323088

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Metals (Continued)

Prep Batch: 323225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-10	2746-01-B07 (16-24)	TCLP	Solid	7470A	323088
500-107556-11	2746-01-B07 (24-30)	TCLP	Solid	7470A	323088
500-107556-12	2746-01-B08 (0-7)	TCLP	Solid	7470A	323088
500-107556-13	2746-01-B08 (7-14)	TCLP	Solid	7470A	323088
500-107556-14	2746-01-B09 (0-8)	TCLP	Solid	7470A	323088
500-107556-15	2746-01-B09 (8-16)	TCLP	Solid	7470A	323088
500-107556-16	2746-01-B09 (16-24)	TCLP	Solid	7470A	323088
500-107556-17	2746-01-B09 (24-30)	TCLP	Solid	7470A	323088
LB 500-323088/1-C	Method Blank	TCLP	Solid	7470A	323088
LCS 500-323225/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 323256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	TCLP	Solid	3010A	323088
500-107556-2	2746-01-B05 (8-16)	TCLP	Solid	3010A	323088
500-107556-3	2746-01-B05 (24-30)	TCLP	Solid	3010A	323088
500-107556-4	2746-01-B05 (16-24)	TCLP	Solid	3010A	323088
500-107556-5	2746-01-B06 (0-8)	TCLP	Solid	3010A	323088
500-107556-6	2746-01-B06 (8-16)	TCLP	Solid	3010A	323088
500-107556-7	2746-01-B07 (0-8)	TCLP	Solid	3010A	323088
500-107556-7 DU	2746-01-B07 (0-8)	TCLP	Solid	3010A	323088
500-107556-7 MS	2746-01-B07 (0-8)	TCLP	Solid	3010A	323088
500-107556-8	2746-01-B07 (0-8)D	TCLP	Solid	3010A	323088
500-107556-9	2746-01-B07 (8-16)	TCLP	Solid	3010A	323088
500-107556-10	2746-01-B07 (16-24)	TCLP	Solid	3010A	323088
500-107556-11	2746-01-B07 (24-30)	TCLP	Solid	3010A	323088
500-107556-12	2746-01-B08 (0-7)	TCLP	Solid	3010A	323088
500-107556-13	2746-01-B08 (7-14)	TCLP	Solid	3010A	323088
500-107556-14	2746-01-B09 (0-8)	TCLP	Solid	3010A	323088
500-107556-15	2746-01-B09 (8-16)	TCLP	Solid	3010A	323088
500-107556-16	2746-01-B09 (16-24)	TCLP	Solid	3010A	323088
500-107556-17	2746-01-B09 (24-30)	TCLP	Solid	3010A	323088
LB 500-323088/1-D	Method Blank	TCLP	Solid	3010A	323088
LCS 500-323256/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 323274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	7471B	323063
500-107556-1 DU	2746-01-B05 (0-8)	Total/NA	Solid	7471B	323063
500-107556-1 MS	2746-01-B05 (0-8)	Total/NA	Solid	7471B	323063
500-107556-1 MSD	2746-01-B05 (0-8)	Total/NA	Solid	7471B	323063
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	7471B	323063
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	7471B	323063
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	7471B	323063
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	7471B	323063
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	7471B	323063
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	7471B	323063
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	7471B	323063
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	7471B	323063
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	7471B	323063
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	7471B	323063

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Metals (Continued)

Analysis Batch: 323274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	7471B	323063
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	7471B	323063
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	7471B	323063
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	7471B	323063
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	7471B	323063
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	7471B	323063
LCS 500-323063/13-A	Lab Control Sample	Total/NA	Solid	7471B	323063
MB 500-323063/12-A	Method Blank	Total/NA	Solid	7471B	323063

Prep Batch: 323349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	SPLP East	Solid	3010A	323102
500-107556-1 DU	2746-01-B05 (0-8)	SPLP East	Solid	3010A	323102
500-107556-1 MS	2746-01-B05 (0-8)	SPLP East	Solid	3010A	323102
500-107556-2	2746-01-B05 (8-16)	SPLP East	Solid	3010A	323102
500-107556-3	2746-01-B05 (24-30)	SPLP East	Solid	3010A	323102
500-107556-4	2746-01-B05 (16-24)	SPLP East	Solid	3010A	323102
500-107556-5	2746-01-B06 (0-8)	SPLP East	Solid	3010A	323102
500-107556-6	2746-01-B06 (8-16)	SPLP East	Solid	3010A	323102
500-107556-7	2746-01-B07 (0-8)	SPLP East	Solid	3010A	323102
500-107556-8	2746-01-B07 (0-8)D	SPLP East	Solid	3010A	323102
500-107556-9	2746-01-B07 (8-16)	SPLP East	Solid	3010A	323102
500-107556-10	2746-01-B07 (16-24)	SPLP East	Solid	3010A	323102
500-107556-11	2746-01-B07 (24-30)	SPLP East	Solid	3010A	323102
500-107556-12	2746-01-B08 (0-7)	SPLP East	Solid	3010A	323102
500-107556-13	2746-01-B08 (7-14)	SPLP East	Solid	3010A	323102
500-107556-14	2746-01-B09 (0-8)	SPLP East	Solid	3010A	323102
500-107556-15	2746-01-B09 (8-16)	SPLP East	Solid	3010A	323102
500-107556-16	2746-01-B09 (16-24)	SPLP East	Solid	3010A	323102
500-107556-17	2746-01-B09 (24-30)	SPLP East	Solid	3010A	323102
LB 500-323102/1-B	Method Blank	SPLP East	Solid	3010A	323102
LCS 500-323349/2-A	Lab Control Sample	Total/NA	Solid	3010A	323102

Analysis Batch: 323440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	TCLP	Solid	7470A	323225
500-107556-2	2746-01-B05 (8-16)	TCLP	Solid	7470A	323225
500-107556-2 DU	2746-01-B05 (8-16)	TCLP	Solid	7470A	323225
500-107556-2 MS	2746-01-B05 (8-16)	TCLP	Solid	7470A	323225
500-107556-3	2746-01-B05 (24-30)	TCLP	Solid	7470A	323225
500-107556-4	2746-01-B05 (16-24)	TCLP	Solid	7470A	323225
500-107556-5	2746-01-B06 (0-8)	TCLP	Solid	7470A	323225
500-107556-6	2746-01-B06 (8-16)	TCLP	Solid	7470A	323225
500-107556-7	2746-01-B07 (0-8)	TCLP	Solid	7470A	323225
500-107556-8	2746-01-B07 (0-8)D	TCLP	Solid	7470A	323225
500-107556-9	2746-01-B07 (8-16)	TCLP	Solid	7470A	323225
500-107556-10	2746-01-B07 (16-24)	TCLP	Solid	7470A	323225
500-107556-11	2746-01-B07 (24-30)	TCLP	Solid	7470A	323225
500-107556-12	2746-01-B08 (0-7)	TCLP	Solid	7470A	323225
500-107556-13	2746-01-B08 (7-14)	TCLP	Solid	7470A	323225
500-107556-14	2746-01-B09 (0-8)	TCLP	Solid	7470A	323225

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Metals (Continued)

Analysis Batch: 323440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-15	2746-01-B09 (8-16)	TCLP	Solid	7470A	323225
500-107556-16	2746-01-B09 (16-24)	TCLP	Solid	7470A	323225
500-107556-17	2746-01-B09 (24-30)	TCLP	Solid	7470A	323225
LB 500-323088/1-C	Method Blank	TCLP	Solid	7470A	323225
LCS 500-323225/13-A	Lab Control Sample	Total/NA	Solid	7470A	323225

Analysis Batch: 323522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	6010B	323078
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	6010B	323078
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	6010B	323078
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	6010B	323078
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	6010B	323078
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	6010B	323078
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	6010B	323078
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	6010B	323078
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	6010B	323078
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	6010B	323078
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	6010B	323078
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	6010B	323078
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	6010B	323078
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	6010B	323078
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	6010B	323078
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	6010B	323078
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	6010B	323078
LCS 500-323078/2-A	Lab Control Sample	Total/NA	Solid	6010B	323078
MB 500-323078/1-A	Method Blank	Total/NA	Solid	6010B	323078

Analysis Batch: 323536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	TCLP	Solid	6020A	323256
500-107556-2	2746-01-B05 (8-16)	TCLP	Solid	6020A	323256
500-107556-3	2746-01-B05 (24-30)	TCLP	Solid	6020A	323256
500-107556-4	2746-01-B05 (16-24)	TCLP	Solid	6020A	323256
500-107556-5	2746-01-B06 (0-8)	TCLP	Solid	6020A	323256
500-107556-6	2746-01-B06 (8-16)	TCLP	Solid	6020A	323256
500-107556-7	2746-01-B07 (0-8)	TCLP	Solid	6020A	323256
500-107556-7 DU	2746-01-B07 (0-8)	TCLP	Solid	6020A	323256
500-107556-7 MS	2746-01-B07 (0-8)	TCLP	Solid	6020A	323256
500-107556-8	2746-01-B07 (0-8)D	TCLP	Solid	6020A	323256
500-107556-9	2746-01-B07 (8-16)	TCLP	Solid	6020A	323256
500-107556-10	2746-01-B07 (16-24)	TCLP	Solid	6020A	323256
500-107556-11	2746-01-B07 (24-30)	TCLP	Solid	6020A	323256
500-107556-12	2746-01-B08 (0-7)	TCLP	Solid	6020A	323256
500-107556-13	2746-01-B08 (7-14)	TCLP	Solid	6020A	323256
500-107556-14	2746-01-B09 (0-8)	TCLP	Solid	6020A	323256
500-107556-15	2746-01-B09 (8-16)	TCLP	Solid	6020A	323256
500-107556-16	2746-01-B09 (16-24)	TCLP	Solid	6020A	323256
500-107556-17	2746-01-B09 (24-30)	TCLP	Solid	6020A	323256
LB 500-323088/1-D	Method Blank	TCLP	Solid	6020A	323256
LCS 500-323256/2-A	Lab Control Sample	Total/NA	Solid	6020A	323256

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Analysis Batch: 323560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-323078/2-A	Lab Control Sample	Total/NA	Solid	6010B	323078
MB 500-323078/1-A	Method Blank	Total/NA	Solid	6010B	323078

Analysis Batch: 323563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	TCLP	Solid	6010B	323256
500-107556-2	2746-01-B05 (8-16)	TCLP	Solid	6010B	323256
500-107556-3	2746-01-B05 (24-30)	TCLP	Solid	6010B	323256
500-107556-4	2746-01-B05 (16-24)	TCLP	Solid	6010B	323256
500-107556-5	2746-01-B06 (0-8)	TCLP	Solid	6010B	323256
500-107556-6	2746-01-B06 (8-16)	TCLP	Solid	6010B	323256
500-107556-7	2746-01-B07 (0-8)	TCLP	Solid	6010B	323256
500-107556-7 DU	2746-01-B07 (0-8)	TCLP	Solid	6010B	323256
500-107556-7 MS	2746-01-B07 (0-8)	TCLP	Solid	6010B	323256
500-107556-8	2746-01-B07 (0-8)D	TCLP	Solid	6010B	323256
500-107556-9	2746-01-B07 (8-16)	TCLP	Solid	6010B	323256
500-107556-10	2746-01-B07 (16-24)	TCLP	Solid	6010B	323256
500-107556-11	2746-01-B07 (24-30)	TCLP	Solid	6010B	323256
500-107556-12	2746-01-B08 (0-7)	TCLP	Solid	6010B	323256
500-107556-13	2746-01-B08 (7-14)	TCLP	Solid	6010B	323256
500-107556-14	2746-01-B09 (0-8)	TCLP	Solid	6010B	323256
500-107556-15	2746-01-B09 (8-16)	TCLP	Solid	6010B	323256
500-107556-16	2746-01-B09 (16-24)	TCLP	Solid	6010B	323256
500-107556-17	2746-01-B09 (24-30)	TCLP	Solid	6010B	323256
LB 500-323088/1-D	Method Blank	TCLP	Solid	6010B	323256
LCS 500-323256/2-A	Lab Control Sample	Total/NA	Solid	6010B	323256

Analysis Batch: 323716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	6010B	323078
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	6010B	323078
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	6010B	323078
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	6010B	323078
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	6010B	323078
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	6010B	323078
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	6010B	323078
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	6010B	323078
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	6010B	323078
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	6010B	323078
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	6010B	323078
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	6010B	323078
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	6010B	323078
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	6010B	323078
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	6010B	323078
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	6010B	323078
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	6010B	323078
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	6010B	323078
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	6010B	323078
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	6010B	323078
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	6010B	323078
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	6010B	323078
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	6010B	323078
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	6010B	323078

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Metals (Continued)

Analysis Batch: 323716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	6010B	323078
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	6010B	323078

Analysis Batch: 323754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	SPLP East	Solid	6010B	323349
500-107556-1 DU	2746-01-B05 (0-8)	SPLP East	Solid	6010B	323349
500-107556-1 MS	2746-01-B05 (0-8)	SPLP East	Solid	6010B	323349
500-107556-2	2746-01-B05 (8-16)	SPLP East	Solid	6010B	323349
500-107556-3	2746-01-B05 (24-30)	SPLP East	Solid	6010B	323349
500-107556-4	2746-01-B05 (16-24)	SPLP East	Solid	6010B	323349
500-107556-5	2746-01-B06 (0-8)	SPLP East	Solid	6010B	323349
500-107556-6	2746-01-B06 (8-16)	SPLP East	Solid	6010B	323349
500-107556-7	2746-01-B07 (0-8)	SPLP East	Solid	6010B	323349
500-107556-8	2746-01-B07 (0-8)D	SPLP East	Solid	6010B	323349
500-107556-9	2746-01-B07 (8-16)	SPLP East	Solid	6010B	323349
500-107556-10	2746-01-B07 (16-24)	SPLP East	Solid	6010B	323349
500-107556-11	2746-01-B07 (24-30)	SPLP East	Solid	6010B	323349
500-107556-12	2746-01-B08 (0-7)	SPLP East	Solid	6010B	323349
500-107556-13	2746-01-B08 (7-14)	SPLP East	Solid	6010B	323349
500-107556-14	2746-01-B09 (0-8)	SPLP East	Solid	6010B	323349
500-107556-15	2746-01-B09 (8-16)	SPLP East	Solid	6010B	323349
500-107556-16	2746-01-B09 (16-24)	SPLP East	Solid	6010B	323349
500-107556-17	2746-01-B09 (24-30)	SPLP East	Solid	6010B	323349
LB 500-323102/1-B	Method Blank	SPLP East	Solid	6010B	323349
LCS 500-323349/2-A	Lab Control Sample	Total/NA	Solid	6010B	323349

General Chemistry

Analysis Batch: 322900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	Moisture	
500-107556-1 DU	2746-01-B05 (0-8)	Total/NA	Solid	Moisture	
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	Moisture	
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	Moisture	
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	Moisture	
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	Moisture	
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	Moisture	
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	Moisture	
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	Moisture	
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	Moisture	
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	Moisture	
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	Moisture	
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	Moisture	
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	Moisture	
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	Moisture	
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	Moisture	
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	Moisture	
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	Moisture	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

General Chemistry (Continued)

Analysis Batch: 323341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107556-1	2746-01-B05 (0-8)	Total/NA	Solid	9045D	
500-107556-2	2746-01-B05 (8-16)	Total/NA	Solid	9045D	
500-107556-3	2746-01-B05 (24-30)	Total/NA	Solid	9045D	
500-107556-4	2746-01-B05 (16-24)	Total/NA	Solid	9045D	
500-107556-5	2746-01-B06 (0-8)	Total/NA	Solid	9045D	
500-107556-6	2746-01-B06 (8-16)	Total/NA	Solid	9045D	
500-107556-7	2746-01-B07 (0-8)	Total/NA	Solid	9045D	
500-107556-8	2746-01-B07 (0-8)D	Total/NA	Solid	9045D	
500-107556-9	2746-01-B07 (8-16)	Total/NA	Solid	9045D	
500-107556-10	2746-01-B07 (16-24)	Total/NA	Solid	9045D	
500-107556-11	2746-01-B07 (24-30)	Total/NA	Solid	9045D	
500-107556-11 DU	2746-01-B07 (24-30)	Total/NA	Solid	9045D	
500-107556-12	2746-01-B08 (0-7)	Total/NA	Solid	9045D	
500-107556-13	2746-01-B08 (7-14)	Total/NA	Solid	9045D	
500-107556-14	2746-01-B09 (0-8)	Total/NA	Solid	9045D	
500-107556-15	2746-01-B09 (8-16)	Total/NA	Solid	9045D	
500-107556-16	2746-01-B09 (16-24)	Total/NA	Solid	9045D	
500-107556-17	2746-01-B09 (24-30)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(70-122)	(75-120)	(70-134)	(75-122)
500-107556-1	2746-01-B05 (0-8)	95	97	92	101
500-107556-2	2746-01-B05 (8-16)	92	96	89	106
500-107556-3	2746-01-B05 (24-30)	93	95	87	107
500-107556-4	2746-01-B05 (16-24)	92	96	90	104
500-107556-5	2746-01-B06 (0-8)	92	96	92	102
500-107556-6	2746-01-B06 (8-16)	89	95	89	105
500-107556-7	2746-01-B07 (0-8)	93	96	92	102
500-107556-8	2746-01-B07 (0-8)D	90	96	90	103
500-107556-9	2746-01-B07 (8-16)	91	97	92	105
500-107556-10	2746-01-B07 (16-24)	91	97	87	106
500-107556-11	2746-01-B07 (24-30)	89	94	87	106
500-107556-12	2746-01-B08 (0-7)	92	98	92	104
500-107556-13	2746-01-B08 (7-14)	89	96	90	103
500-107556-14	2746-01-B09 (0-8)	89	98	91	102
500-107556-15	2746-01-B09 (8-16)	91	98	86	105
500-107556-16	2746-01-B09 (16-24)	74	97	87	119
500-107556-17	2746-01-B09 (24-30)	90	98	88	104
LCS 500-323207/3	Lab Control Sample	96	89	77	107
LCSD 500-323207/28	Lab Control Sample Dup	97	89	78	107
MB 500-323207/4	Method Blank	94	92	83	103

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- 12DCE = 1,2-Dichloroethane-d4 (Surr)
- TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
		(25-110)	(31-110)	(25-115)	(25-119)	(35-137)	(36-134)
500-107556-1	2746-01-B05 (0-8)	74	77	71	77	88	94
500-107556-1 MS	2746-01-B05 (0-8)	69	64	65	69	84	128
500-107556-1 MSD	2746-01-B05 (0-8)	74	69	69	73	92	141 X
500-107556-2	2746-01-B05 (8-16)	75	75	70	74	84	92
500-107556-3	2746-01-B05 (24-30)	78	77	73	75	75	97
500-107556-4	2746-01-B05 (16-24)	75	76	69	76	82	98
500-107556-5	2746-01-B06 (0-8)	67	69	63	69	75	98
500-107556-6	2746-01-B06 (8-16)	78	79	72	79	90	110
500-107556-7	2746-01-B07 (0-8)	58	62	56	65	79	107
500-107556-8	2746-01-B07 (0-8)D	67	68	62	69	69	111
500-107556-9	2746-01-B07 (8-16)	69	71	64	70	73	106
500-107556-10	2746-01-B07 (16-24)	76	77	72	76	82	121
500-107556-11	2746-01-B07 (24-30)	77	79	72	78	83	130
500-107556-12	2746-01-B08 (0-7)	73	73	66	72	73	116
500-107556-13	2746-01-B08 (7-14)	76	79	71	79	72	135 X
500-107556-14	2746-01-B09 (0-8)	81	84	76	83	101	145 X

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
		(25-110)	(31-110)	(25-115)	(25-119)	(35-137)	(36-134)
500-107556-15	2746-01-B09 (8-16)	74	74	68	75	68	124
500-107556-16	2746-01-B09 (16-24)	83	83	77	83	95	140 X
500-107556-17	2746-01-B09 (24-30)	75	76	70	77	81	133
LCS 500-322938/2-A	Lab Control Sample	70	72	66	71	85	92
MB 500-322938/1-A	Method Blank	66	71	60	68	47	88

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-323207/4

Matrix: Solid

Analysis Batch: 323207

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/17/16 21:49	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 21:49	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/17/16 21:49	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 21:49	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 21:49	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 21:49	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 21:49	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 21:49	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/17/16 21:49	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/17/16 21:49	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 21:49	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/17/16 21:49	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/17/16 21:49	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 21:49	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/17/16 21:49	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/17/16 21:49	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 21:49	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 21:49	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/17/16 21:49	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/17/16 21:49	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 21:49	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/17/16 21:49	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/17/16 21:49	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/17/16 21:49	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 21:49	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 21:49	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/17/16 21:49	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/17/16 21:49	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/17/16 21:49	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/17/16 21:49	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/17/16 21:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		02/17/16 21:49	1
Dibromofluoromethane	92		75 - 120		02/17/16 21:49	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 134		02/17/16 21:49	1
Toluene-d8 (Surr)	103		75 - 122		02/17/16 21:49	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323207/3

Matrix: Solid

Analysis Batch: 323207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0483		mg/Kg		97	50 - 133
Benzene	0.0500	0.0569		mg/Kg		114	70 - 120
Bromodichloromethane	0.0500	0.0470		mg/Kg		94	69 - 120
Bromoform	0.0500	0.0432		mg/Kg		86	51 - 127
Bromomethane	0.0500	0.0365		mg/Kg		73	69 - 120
2-Butanone (MEK)	0.0500	0.0451		mg/Kg		90	50 - 148
Carbon disulfide	0.0500	0.0514		mg/Kg		103	58 - 120
Carbon tetrachloride	0.0500	0.0415		mg/Kg		83	51 - 124
Chlorobenzene	0.0500	0.0508		mg/Kg		102	70 - 120
Chloroethane	0.0500	0.0390		mg/Kg		78	49 - 125
Chloroform	0.0500	0.0492		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0523		mg/Kg		105	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 120
Dibromochloromethane	0.0500	0.0466		mg/Kg		93	69 - 126
1,1-Dichloroethane	0.0500	0.0511		mg/Kg		102	70 - 120
1,2-Dichloroethane	0.0500	0.0406		mg/Kg		81	70 - 128
1,1-Dichloroethene	0.0500	0.0477		mg/Kg		95	67 - 120
1,2-Dichloropropane	0.0500	0.0536		mg/Kg		107	70 - 120
Ethylbenzene	0.0500	0.0539		mg/Kg		108	70 - 120
2-Hexanone	0.0500	0.0448		mg/Kg		90	50 - 150
Methylene Chloride	0.0500	0.0527		mg/Kg		105	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0471		mg/Kg		94	50 - 150
Methyl tert-butyl ether	0.0500	0.0473		mg/Kg		95	70 - 120
Styrene	0.0500	0.0529		mg/Kg		106	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0512		mg/Kg		102	70 - 133
Tetrachloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
Toluene	0.0500	0.0536		mg/Kg		107	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0496		mg/Kg		99	70 - 120
1,1,1-Trichloroethane	0.0500	0.0440		mg/Kg		88	70 - 120
1,1,2-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 120
Trichloroethene	0.0500	0.0515		mg/Kg		103	70 - 120
Vinyl acetate	0.0500	0.0523		mg/Kg		105	60 - 150
Vinyl chloride	0.0500	0.0474		mg/Kg		95	69 - 120
Xylenes, Total	0.100	0.102		mg/Kg		102	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 122
Dibromofluoromethane	89		75 - 120
1,2-Dichloroethane-d4 (Surr)	77		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Lab Sample ID: LCSD 500-323207/28

Matrix: Solid

Analysis Batch: 323207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0509		mg/Kg		102	50 - 133	5	30
Benzene	0.0500	0.0544		mg/Kg		109	70 - 120	5	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323207/28
Matrix: Solid
Analysis Batch: 323207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0460		mg/Kg		92	69 - 120	2	30
Bromoform	0.0500	0.0429		mg/Kg		86	51 - 127	1	30
Bromomethane	0.0500	0.0403		mg/Kg		81	69 - 120	10	30
2-Butanone (MEK)	0.0500	0.0497		mg/Kg		99	50 - 148	10	30
Carbon disulfide	0.0500	0.0484		mg/Kg		97	58 - 120	6	30
Carbon tetrachloride	0.0500	0.0393		mg/Kg		79	51 - 124	5	30
Chlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120	5	30
Chloroethane	0.0500	0.0671	*	mg/Kg		134	49 - 125	53	30
Chloroform	0.0500	0.0481		mg/Kg		96	70 - 120	2	30
Chloromethane	0.0500	0.0538		mg/Kg		108	63 - 126	3	30
cis-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 120	5	30
Dibromochloromethane	0.0500	0.0467		mg/Kg		93	69 - 126	0	30
1,1-Dichloroethane	0.0500	0.0487		mg/Kg		97	70 - 120	5	30
1,2-Dichloroethane	0.0500	0.0391		mg/Kg		78	70 - 128	4	30
1,1-Dichloroethene	0.0500	0.0449		mg/Kg		90	67 - 120	6	30
1,2-Dichloropropane	0.0500	0.0512		mg/Kg		102	70 - 120	5	30
Ethylbenzene	0.0500	0.0508		mg/Kg		102	70 - 120	6	30
2-Hexanone	0.0500	0.0458		mg/Kg		92	50 - 150	2	30
Methylene Chloride	0.0500	0.0525		mg/Kg		105	70 - 120	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0478		mg/Kg		96	50 - 150	1	30
Methyl tert-butyl ether	0.0500	0.0460		mg/Kg		92	70 - 120	3	30
Styrene	0.0500	0.0506		mg/Kg		101	70 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0500	0.0502		mg/Kg		100	70 - 133	2	30
Tetrachloroethene	0.0500	0.0435		mg/Kg		87	70 - 120	9	30
Toluene	0.0500	0.0514		mg/Kg		103	70 - 120	4	30
trans-1,2-Dichloroethene	0.0500	0.0466		mg/Kg		93	70 - 120	6	30
1,1,1-Trichloroethane	0.0500	0.0418		mg/Kg		84	70 - 120	5	30
1,1,2-Trichloroethane	0.0500	0.0499		mg/Kg		100	70 - 120	1	30
Trichloroethene	0.0500	0.0479		mg/Kg		96	70 - 120	7	30
Vinyl acetate	0.0500	0.0514		mg/Kg		103	60 - 150	2	30
Vinyl chloride	0.0500	0.0466		mg/Kg		93	69 - 120	2	30
Xylenes, Total	0.100	0.0971		mg/Kg		97	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	97		70 - 122
Dibromofluoromethane	89		75 - 120
1,2-Dichloroethane-d4 (Surr)	78		70 - 134
Toluene-d8 (Surr)	107		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322938/1-A
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/15/16 19:00	02/22/16 13:03	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322938/1-A
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322938

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/15/16 19:00	02/22/16 13:03	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322938/1-A
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/15/16 19:00	02/22/16 13:03	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/15/16 19:00	02/22/16 13:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	66		25 - 110	02/15/16 19:00	02/22/16 13:03	1
Phenol-d5	71		31 - 110	02/15/16 19:00	02/22/16 13:03	1
Nitrobenzene-d5	60		25 - 115	02/15/16 19:00	02/22/16 13:03	1
2-Fluorobiphenyl	68		25 - 119	02/15/16 19:00	02/22/16 13:03	1
2,4,6-Tribromophenol	47		35 - 137	02/15/16 19:00	02/22/16 13:03	1
Terphenyl-d14	88		36 - 134	02/15/16 19:00	02/22/16 13:03	1

Lab Sample ID: LCS 500-322938/2-A
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.05		mg/Kg		79	41 - 110
Bis(2-chloroethyl)ether	1.33	0.971		mg/Kg		73	32 - 110
1,3-Dichlorobenzene	1.33	1.02		mg/Kg		77	44 - 110
1,4-Dichlorobenzene	1.33	1.05		mg/Kg		79	45 - 110
1,2-Dichlorobenzene	1.33	1.04		mg/Kg		78	48 - 110
2-Methylphenol	1.33	0.963		mg/Kg		72	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.658		mg/Kg		49	30 - 115
N-Nitrosodi-n-propylamine	1.33	0.968		mg/Kg		73	24 - 123
Hexachloroethane	1.33	1.03		mg/Kg		77	44 - 110
2-Chlorophenol	1.33	1.05		mg/Kg		78	47 - 114
Nitrobenzene	1.33	1.04		mg/Kg		78	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.04		mg/Kg		78	42 - 110
1,2,4-Trichlorobenzene	1.33	1.15		mg/Kg		87	49 - 110
Isophorone	1.33	1.06		mg/Kg		80	35 - 110
2,4-Dimethylphenol	1.33	1.04		mg/Kg		78	49 - 110
Hexachlorobutadiene	1.33	1.23		mg/Kg		93	47 - 114
Naphthalene	1.33	1.06		mg/Kg		80	48 - 110
2,4-Dichlorophenol	1.33	1.11		mg/Kg		83	53 - 113
4-Chloroaniline	1.33	1.27		mg/Kg		95	16 - 118
2,4,6-Trichlorophenol	1.33	0.924		mg/Kg		69	44 - 118

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322938/2-A
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1.33	0.928		mg/Kg		70	41 - 120
Hexachlorocyclopentadiene	1.33	<0.67	*	mg/Kg		9	10 - 110
2-Methylnaphthalene	1.33	1.04		mg/Kg		78	48 - 110
2-Nitroaniline	1.33	0.970		mg/Kg		73	42 - 122
2-Chloronaphthalene	1.33	0.992		mg/Kg		74	52 - 114
4-Chloro-3-methylphenol	1.33	1.09		mg/Kg		82	52 - 111
2,6-Dinitrotoluene	1.33	1.07		mg/Kg		80	54 - 117
2-Nitrophenol	1.33	1.09		mg/Kg		82	48 - 113
3-Nitroaniline	1.33	0.874		mg/Kg		66	36 - 131
Dimethyl phthalate	1.33	1.03		mg/Kg		77	56 - 113
2,4-Dinitrophenol	2.67	<0.67	*	mg/Kg		7	10 - 110
Acenaphthylene	1.33	1.00		mg/Kg		75	49 - 110
2,4-Dinitrotoluene	1.33	1.06		mg/Kg		79	53 - 122
Acenaphthene	1.33	0.918		mg/Kg		69	46 - 110
Dibenzofuran	1.33	1.02		mg/Kg		76	51 - 119
4-Nitrophenol	2.67	1.56		mg/Kg		59	10 - 157
Fluorene	1.33	1.02		mg/Kg		76	47 - 121
4-Nitroaniline	1.33	1.25		mg/Kg		94	28 - 157
4-Bromophenyl phenyl ether	1.33	1.27		mg/Kg		95	55 - 113
Hexachlorobenzene	1.33	1.27		mg/Kg		96	54 - 114
Diethyl phthalate	1.33	1.02		mg/Kg		76	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.06		mg/Kg		79	53 - 117
Pentachlorophenol	2.67	1.06		mg/Kg		40	10 - 124
N-Nitrosodiphenylamine	1.33	1.17		mg/Kg		88	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.625	J	mg/Kg		23	10 - 110
Phenanthrene	1.33	1.10		mg/Kg		82	48 - 121
Anthracene	1.33	1.13		mg/Kg		85	48 - 118
Carbazole	1.33	1.24		mg/Kg		93	26 - 188
Di-n-butyl phthalate	1.33	1.12		mg/Kg		84	50 - 128
Fluoranthene	1.33	1.16		mg/Kg		87	48 - 128
Pyrene	1.33	1.13		mg/Kg		85	46 - 114
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	49 - 121
Benzo[a]anthracene	1.33	1.07		mg/Kg		80	49 - 121
Chrysene	1.33	1.13		mg/Kg		85	45 - 118
3,3'-Dichlorobenzidine	1.33	0.918		mg/Kg		69	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.03		mg/Kg		78	47 - 133
Di-n-octyl phthalate	1.33	1.05		mg/Kg		79	46 - 138
Benzo[b]fluoranthene	1.33	1.18		mg/Kg		88	54 - 122
Benzo[k]fluoranthene	1.33	1.16		mg/Kg		87	44 - 137
Benzo[a]pyrene	1.33	1.17		mg/Kg		88	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.23		mg/Kg		92	49 - 132
Dibenz(a,h)anthracene	1.33	1.24		mg/Kg		93	48 - 134
Benzo[g,h,i]perylene	1.33	1.22		mg/Kg		92	52 - 125
3 & 4 Methylphenol	1.33	1.02		mg/Kg		77	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	70		25 - 110
Phenol-d5	72		31 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322938/2-A
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322938

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	66		25 - 115
2-Fluorobiphenyl	71		25 - 119
2,4,6-Tribromophenol	85		35 - 137
Terphenyl-d14	92		36 - 134

Lab Sample ID: 500-107556-1 MS
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phenol	<0.19		1.51	1.00		mg/Kg	☼	66	41 - 110
Bis(2-chloroethyl)ether	<0.19		1.51	0.962		mg/Kg	☼	64	32 - 110
1,3-Dichlorobenzene	<0.19		1.51	0.973		mg/Kg	☼	65	44 - 110
1,4-Dichlorobenzene	<0.19		1.51	0.996		mg/Kg	☼	66	45 - 110
1,2-Dichlorobenzene	<0.19		1.51	0.999		mg/Kg	☼	66	48 - 110
2-Methylphenol	<0.19		1.51	0.988		mg/Kg	☼	66	44 - 110
2,2'-oxybis[1-chloropropane]	<0.19		1.51	0.649		mg/Kg	☼	43	30 - 115
N-Nitrosodi-n-propylamine	<0.078		1.51	0.996		mg/Kg	☼	66	24 - 123
Hexachloroethane	<0.19		1.51	0.668		mg/Kg	☼	44	44 - 110
2-Chlorophenol	<0.19		1.51	1.10		mg/Kg	☼	73	47 - 114
Nitrobenzene	<0.038		1.51	1.06		mg/Kg	☼	70	35 - 113
Bis(2-chloroethoxy)methane	<0.19		1.51	1.09		mg/Kg	☼	72	42 - 110
1,2,4-Trichlorobenzene	<0.19		1.51	1.14		mg/Kg	☼	76	49 - 110
Isophorone	<0.19		1.51	1.08		mg/Kg	☼	72	35 - 110
2,4-Dimethylphenol	<0.38		1.51	1.11		mg/Kg	☼	74	49 - 110
Hexachlorobutadiene	<0.19		1.51	1.23		mg/Kg	☼	81	47 - 114
Naphthalene	0.0061	J	1.51	1.07		mg/Kg	☼	70	48 - 110
2,4-Dichlorophenol	<0.38		1.51	1.23		mg/Kg	☼	81	53 - 113
4-Chloroaniline	<0.78		1.51	0.723	J	mg/Kg	☼	48	16 - 118
2,4,6-Trichlorophenol	<0.38		1.51	1.13		mg/Kg	☼	75	44 - 118
2,4,5-Trichlorophenol	<0.38		1.51	1.17		mg/Kg	☼	78	41 - 120
Hexachlorocyclopentadiene	<0.78	* F1	1.51	<0.76	F1	mg/Kg	☼	0	10 - 110
2-Methylnaphthalene	<0.038		1.51	1.08		mg/Kg	☼	71	48 - 110
2-Nitroaniline	<0.19		1.51	1.04		mg/Kg	☼	69	42 - 122
2-Chloronaphthalene	<0.19		1.51	1.05		mg/Kg	☼	69	52 - 114
4-Chloro-3-methylphenol	<0.38		1.51	1.19		mg/Kg	☼	79	52 - 111
2,6-Dinitrotoluene	<0.19		1.51	1.11		mg/Kg	☼	74	54 - 117
2-Nitrophenol	<0.38		1.51	1.14		mg/Kg	☼	76	48 - 113
3-Nitroaniline	<0.38		1.51	0.975		mg/Kg	☼	65	36 - 131
Dimethyl phthalate	<0.19		1.51	1.09		mg/Kg	☼	72	56 - 113
2,4-Dinitrophenol	<0.78	* F1	3.01	<0.76	F1	mg/Kg	☼	0	10 - 110
Acenaphthylene	<0.038		1.51	1.02		mg/Kg	☼	68	49 - 110
2,4-Dinitrotoluene	<0.19		1.51	1.06		mg/Kg	☼	70	53 - 122
Acenaphthene	<0.038		1.51	0.972		mg/Kg	☼	65	46 - 110
Dibenzofuran	<0.19		1.51	1.07		mg/Kg	☼	71	51 - 119
4-Nitrophenol	<0.78		3.01	1.88		mg/Kg	☼	62	10 - 157
Fluorene	<0.038		1.51	1.10		mg/Kg	☼	73	47 - 121
4-Nitroaniline	<0.38		1.51	1.15		mg/Kg	☼	77	28 - 157

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107556-1 MS

Matrix: Solid

Analysis Batch: 323893

Client Sample ID: 2746-01-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322938

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Bromophenyl phenyl ether	<0.19		1.51	1.39		mg/Kg	☼	93	55 - 113
Hexachlorobenzene	<0.078		1.51	1.38		mg/Kg	☼	91	54 - 114
Diethyl phthalate	<0.19		1.51	1.09		mg/Kg	☼	72	50 - 128
4-Chlorophenyl phenyl ether	<0.19		1.51	1.16		mg/Kg	☼	77	53 - 117
Pentachlorophenol	<0.78	F2	3.01	0.882		mg/Kg	☼	29	10 - 124
N-Nitrosodiphenylamine	<0.19		1.51	1.26		mg/Kg	☼	84	52 - 111
4,6-Dinitro-2-methylphenol	<0.78	F1	3.01	<0.76	F1	mg/Kg	☼	0	10 - 110
Phenanthrene	0.015	J	1.51	1.23		mg/Kg	☼	81	48 - 121
Anthracene	<0.038		1.51	1.21		mg/Kg	☼	80	48 - 118
Carbazole	<0.19		1.51	1.34		mg/Kg	☼	89	26 - 188
Di-n-butyl phthalate	<0.19		1.51	1.16		mg/Kg	☼	77	50 - 128
Fluoranthene	0.014	J	1.51	1.22		mg/Kg	☼	80	48 - 128
Pyrene	0.011	J F1	1.51	1.69		mg/Kg	☼	112	46 - 114
Butyl benzyl phthalate	<0.19		1.51	1.66		mg/Kg	☼	110	49 - 121
Benzo[a]anthracene	0.0066	J	1.51	1.19		mg/Kg	☼	79	49 - 121
Chrysene	<0.038		1.51	1.24		mg/Kg	☼	82	45 - 118
3,3'-Dichlorobenzidine	<0.19		1.51	0.467		mg/Kg	☼	31	26 - 128
Bis(2-ethylhexyl) phthalate	<0.19		1.51	1.60		mg/Kg	☼	106	47 - 133
Di-n-octyl phthalate	<0.19		1.51	0.906		mg/Kg	☼	60	46 - 138
Benzo[b]fluoranthene	0.0093	J	1.51	1.63		mg/Kg	☼	107	54 - 122
Benzo[k]fluoranthene	<0.038		1.51	1.68		mg/Kg	☼	111	44 - 137
Benzo[a]pyrene	<0.038		1.51	1.30		mg/Kg	☼	86	53 - 122
Indeno[1,2,3-cd]pyrene	<0.038	F1	1.51	0.706	F1	mg/Kg	☼	47	49 - 132
Dibenz(a,h)anthracene	<0.038		1.51	0.771		mg/Kg	☼	51	48 - 134
Benzo[g,h,i]perylene	<0.038	F1	1.51	0.622	F1	mg/Kg	☼	41	52 - 125
3 & 4 Methylphenol	<0.19		1.51	1.28		mg/Kg	☼	85	37 - 122

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	69		25 - 110
Phenol-d5	64		31 - 110
Nitrobenzene-d5	65		25 - 115
2-Fluorobiphenyl	69		25 - 119
2,4,6-Tribromophenol	84		35 - 137
Terphenyl-d14	128		36 - 134

Lab Sample ID: 500-107556-1 MSD

Matrix: Solid

Analysis Batch: 323893

Client Sample ID: 2746-01-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322938

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	<0.19		1.53	1.07		mg/Kg	☼	70	41 - 110	7	30
Bis(2-chloroethyl)ether	<0.19		1.53	1.04		mg/Kg	☼	68	32 - 110	8	30
1,3-Dichlorobenzene	<0.19		1.53	1.06		mg/Kg	☼	69	44 - 110	8	30
1,4-Dichlorobenzene	<0.19		1.53	1.08		mg/Kg	☼	71	45 - 110	8	30
1,2-Dichlorobenzene	<0.19		1.53	1.10		mg/Kg	☼	72	48 - 110	9	30
2-Methylphenol	<0.19		1.53	1.30		mg/Kg	☼	85	44 - 110	27	30
2,2'-oxybis[1-chloropropane]	<0.19		1.53	0.705		mg/Kg	☼	46	30 - 115	8	30
N-Nitrosodi-n-propylamine	<0.078		1.53	1.07		mg/Kg	☼	70	24 - 123	7	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107556-1 MSD

Matrix: Solid

Analysis Batch: 323893

Client Sample ID: 2746-01-B05 (0-8)

Prep Type: Total/NA

Prep Batch: 322938

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Hexachloroethane	<0.19		1.53	0.690		mg/Kg	☼	45	44 - 110	3	30
2-Chlorophenol	<0.19		1.53	1.19		mg/Kg	☼	78	47 - 114	8	30
Nitrobenzene	<0.038		1.53	1.17		mg/Kg	☼	77	35 - 113	10	30
Bis(2-chloroethoxy)methane	<0.19		1.53	1.16		mg/Kg	☼	76	42 - 110	6	30
1,2,4-Trichlorobenzene	<0.19		1.53	1.24		mg/Kg	☼	81	49 - 110	9	30
Isophorone	<0.19		1.53	1.18		mg/Kg	☼	77	35 - 110	9	30
2,4-Dimethylphenol	<0.38		1.53	1.22		mg/Kg	☼	80	49 - 110	9	30
Hexachlorobutadiene	<0.19		1.53	1.33		mg/Kg	☼	87	47 - 114	8	30
Naphthalene	0.0061	J	1.53	1.18		mg/Kg	☼	77	48 - 110	10	30
2,4-Dichlorophenol	<0.38		1.53	1.33		mg/Kg	☼	87	53 - 113	8	30
4-Chloroaniline	<0.78		1.53	0.593	J	mg/Kg	☼	39	16 - 118	20	30
2,4,6-Trichlorophenol	<0.38		1.53	1.21		mg/Kg	☼	79	44 - 118	7	30
2,4,5-Trichlorophenol	<0.38		1.53	1.24		mg/Kg	☼	81	41 - 120	6	30
Hexachlorocyclopentadiene	<0.78	* F1	1.53	<0.77	F1	mg/Kg	☼	0	10 - 110	NC	30
2-Methylnaphthalene	<0.038		1.53	1.16		mg/Kg	☼	76	48 - 110	8	30
2-Nitroaniline	<0.19		1.53	1.10		mg/Kg	☼	72	42 - 122	6	30
2-Chloronaphthalene	<0.19		1.53	1.10		mg/Kg	☼	72	52 - 114	5	30
4-Chloro-3-methylphenol	<0.38		1.53	1.29		mg/Kg	☼	84	52 - 111	8	30
2,6-Dinitrotoluene	<0.19		1.53	1.18		mg/Kg	☼	77	54 - 117	5	30
2-Nitrophenol	<0.38		1.53	1.28		mg/Kg	☼	84	48 - 113	11	30
3-Nitroaniline	<0.38		1.53	1.07		mg/Kg	☼	70	36 - 131	10	30
Dimethyl phthalate	<0.19		1.53	1.16		mg/Kg	☼	76	56 - 113	6	30
2,4-Dinitrophenol	<0.78	* F1	3.06	<0.77	F1	mg/Kg	☼	0	10 - 110	NC	30
Acenaphthylene	<0.038		1.53	1.06		mg/Kg	☼	69	49 - 110	4	30
2,4-Dinitrotoluene	<0.19		1.53	1.10		mg/Kg	☼	72	53 - 122	4	30
Acenaphthene	<0.038		1.53	1.04		mg/Kg	☼	68	46 - 110	7	30
Dibenzofuran	<0.19		1.53	1.16		mg/Kg	☼	76	51 - 119	9	30
4-Nitrophenol	<0.78		3.06	2.08		mg/Kg	☼	68	10 - 157	10	30
Fluorene	<0.038		1.53	1.16		mg/Kg	☼	76	47 - 121	5	30
4-Nitroaniline	<0.38		1.53	1.15		mg/Kg	☼	75	28 - 157	1	30
4-Bromophenyl phenyl ether	<0.19		1.53	1.50		mg/Kg	☼	98	55 - 113	7	30
Hexachlorobenzene	<0.078		1.53	1.45		mg/Kg	☼	95	54 - 114	5	30
Diethyl phthalate	<0.19		1.53	1.14		mg/Kg	☼	75	50 - 128	5	30
4-Chlorophenyl phenyl ether	<0.19		1.53	1.23		mg/Kg	☼	80	53 - 117	6	30
Pentachlorophenol	<0.78	F2	3.06	1.24	F2	mg/Kg	☼	41	10 - 124	34	30
N-Nitrosodiphenylamine	<0.19		1.53	1.35		mg/Kg	☼	88	52 - 111	7	30
4,6-Dinitro-2-methylphenol	<0.78	F1	3.06	<0.77	F1	mg/Kg	☼	0	10 - 110	NC	30
Phenanthrene	0.015	J	1.53	1.29		mg/Kg	☼	83	48 - 121	5	30
Anthracene	<0.038		1.53	1.29		mg/Kg	☼	85	48 - 118	7	30
Carbazole	<0.19		1.53	1.37		mg/Kg	☼	90	26 - 188	3	30
Di-n-butyl phthalate	<0.19		1.53	1.20		mg/Kg	☼	78	50 - 128	4	30
Fluoranthene	0.014	J	1.53	1.28		mg/Kg	☼	83	48 - 128	4	30
Pyrene	0.011	J F1	1.53	1.91	F1	mg/Kg	☼	124	46 - 114	12	30
Butyl benzyl phthalate	<0.19		1.53	1.82		mg/Kg	☼	119	49 - 121	9	30
Benzo[a]anthracene	0.0066	J	1.53	1.24		mg/Kg	☼	80	49 - 121	3	30
Chrysene	<0.038		1.53	1.30		mg/Kg	☼	85	45 - 118	5	30
3,3'-Dichlorobenzidine	<0.19		1.53	0.404		mg/Kg	☼	26	26 - 128	14	30
Bis(2-ethylhexyl) phthalate	<0.19		1.53	1.74		mg/Kg	☼	114	47 - 133	9	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-107556-1 MSD
Matrix: Solid
Analysis Batch: 323893

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 322938

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Di-n-octyl phthalate	<0.19		1.53	0.890		mg/Kg	☼	58	46 - 138	2	30
Benzo[b]fluoranthene	0.0093	J	1.53	1.72		mg/Kg	☼	112	54 - 122	5	30
Benzo[k]fluoranthene	<0.038		1.53	1.72		mg/Kg	☼	112	44 - 137	2	30
Benzo[a]pyrene	<0.038		1.53	1.40		mg/Kg	☼	92	53 - 122	8	30
Indeno[1,2,3-cd]pyrene	<0.038	F1	1.53	0.932		mg/Kg	☼	61	49 - 132	27	30
Dibenz(a,h)anthracene	<0.038		1.53	0.825		mg/Kg	☼	54	48 - 134	7	30
Benzo[g,h,i]perylene	<0.038	F1	1.53	0.718	F1	mg/Kg	☼	47	52 - 125	14	30
3 & 4 Methylphenol	<0.19		1.53	1.32		mg/Kg	☼	86	37 - 122	3	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	74		25 - 110
Phenol-d5	69		31 - 110
Nitrobenzene-d5	69		25 - 115
2-Fluorobiphenyl	73		25 - 119
2,4,6-Tribromophenol	92		35 - 137
Terphenyl-d14	141	X	36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-323078/1-A
Matrix: Solid
Analysis Batch: 323522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323078

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Barium	<1.0		1.0	0.18	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Boron	<5.0		5.0	0.70	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Calcium	11.7	J	20	6.4	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Chromium	0.320	J	1.0	0.17	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Copper	<1.0		1.0	0.22	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Iron	8.28	J	20	7.7	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Lead	<0.50		0.50	0.25	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Magnesium	<10		10	4.1	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Manganese	<1.0		1.0	0.20	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Potassium	<50		50	8.2	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Silver	<0.50		0.50	0.12	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Sodium	<100		100	13	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/16/16 15:08	02/18/16 16:40	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/16/16 15:08	02/18/16 16:40	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-323078/1-A
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<1.0		1.0	0.50	mg/Kg		02/16/16 15:08	02/19/16 09:27	1

Lab Sample ID: LCS 500-323078/2-A
Matrix: Solid
Analysis Batch: 323522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	45.2		mg/Kg		90	80 - 120
Arsenic	10.0	8.73		mg/Kg		87	80 - 120
Barium	200	189		mg/Kg		95	80 - 120
Beryllium	5.00	4.69		mg/Kg		94	80 - 120
Boron	100	84.5		mg/Kg		85	80 - 120
Cadmium	5.00	4.39		mg/Kg		88	80 - 120
Calcium	1000	900		mg/Kg		90	80 - 120
Chromium	20.0	18.9		mg/Kg		94	80 - 120
Cobalt	50.0	46.1		mg/Kg		92	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Iron	100	113		mg/Kg		113	80 - 120
Lead	10.0	8.82		mg/Kg		88	80 - 120
Magnesium	1000	908		mg/Kg		91	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	46.7		mg/Kg		93	80 - 120
Potassium	1000	906		mg/Kg		91	80 - 120
Silver	5.00	4.56		mg/Kg		91	80 - 120
Sodium	1000	990		mg/Kg		99	80 - 120
Thallium	10.0	8.32		mg/Kg		83	80 - 120
Vanadium	50.0	45.8		mg/Kg		92	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: LCS 500-323078/2-A
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Selenium	10.0	8.37		mg/Kg		84	80 - 120

Lab Sample ID: LCS 500-323256/2-A
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.500	0.499	J	mg/L		100	80 - 120
Beryllium	0.0500	0.0492		mg/L		98	80 - 120
Boron	1.00	0.938		mg/L		94	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Chromium	0.200	0.197		mg/L		99	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120
Lead	0.100	0.0991		mg/L		99	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-323256/2-A
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Manganese	0.500	0.509		mg/L		102	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Selenium	0.100	0.0934		mg/L		93	80 - 120
Silver	0.0500	0.0496		mg/L		99	80 - 120
Zinc	0.500	0.495	J	mg/L		99	80 - 120

Lab Sample ID: LCS 500-323349/2-A
Matrix: Solid
Analysis Batch: 323754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.0990		mg/L		99	80 - 120
Manganese	0.500	0.498		mg/L		100	80 - 120

Lab Sample ID: LB 500-323088/1-D
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323256

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/16 14:47	02/18/16 14:06	1
Boron	<0.50		0.50	0.050	mg/L		02/17/16 14:47	02/18/16 14:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/16 14:47	02/18/16 14:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:06	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:06	1
Iron	<0.40		0.40	0.20	mg/L		02/17/16 14:47	02/18/16 14:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/16 14:47	02/18/16 14:06	1
Manganese	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/16 14:47	02/18/16 14:06	1
Silver	<0.025		0.025	0.010	mg/L		02/17/16 14:47	02/18/16 14:06	1
Zinc	0.281	J	0.50	0.020	mg/L		02/17/16 14:47	02/18/16 14:06	1

Lab Sample ID: 500-107556-7 MS
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: 2746-01-B07 (0-8)
Prep Type: TCLP
Prep Batch: 323256

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.45	J	0.500	0.941		mg/L		99	50 - 150
Beryllium	<0.0040		0.0500	0.0501		mg/L		100	50 - 150
Boron	0.48	J	1.00	1.07		mg/L		59	50 - 150
Cadmium	<0.0050		0.0500	0.0499		mg/L		100	50 - 150
Chromium	<0.025		0.200	0.194		mg/L		97	50 - 150
Cobalt	<0.025		0.500	0.482		mg/L		96	50 - 150
Iron	<0.40		1.00	0.978		mg/L		98	50 - 150
Lead	<0.0075		0.100	0.102		mg/L		102	50 - 150
Manganese	0.18		0.500	0.685		mg/L		101	50 - 150
Nickel	<0.025		0.500	0.478		mg/L		96	50 - 150
Selenium	<0.050		0.100	0.103		mg/L		103	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107556-7 MS
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: 2746-01-B07 (0-8)
Prep Type: TCLP
Prep Batch: 323256

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Silver	<0.025		0.0500	0.0540		mg/L		108	50 - 150
Zinc	0.063	J B	0.500	0.525		mg/L		92	50 - 150

Lab Sample ID: 500-107556-7 DU
Matrix: Solid
Analysis Batch: 323563

Client Sample ID: 2746-01-B07 (0-8)
Prep Type: TCLP
Prep Batch: 323256

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.45	J	0.449	J	mg/L		0.9	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	0.48	J	0.485	J	mg/L		0.9	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	<0.025		<0.025		mg/L		NC	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	0.18		0.178		mg/L		0.05	20
Nickel	<0.025		<0.025		mg/L		NC	20
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.063	J B	0.0627	J	mg/L		0.1	20

Lab Sample ID: LB 500-323102/1-B
Matrix: Solid
Analysis Batch: 323754

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 323349

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:53	02/20/16 04:27	1
Manganese	<0.025		0.025	0.010	mg/L		02/18/16 08:53	02/20/16 04:27	1

Lab Sample ID: 500-107556-1 MS
Matrix: Solid
Analysis Batch: 323754

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: SPLP East
Prep Batch: 323349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	0.28		0.500	0.959		mg/L		136	50 - 150

Lab Sample ID: 500-107556-1 DU
Matrix: Solid
Analysis Batch: 323754

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: SPLP East
Prep Batch: 323349

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	0.28		0.306		mg/L		9	20

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-323256/2-A
Matrix: Solid
Analysis Batch: 323536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.455		mg/L		91	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LB 500-323088/1-D
Matrix: Solid
Analysis Batch: 323536

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323256

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/17/16 14:47	02/18/16 13:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/17/16 14:47	02/18/16 13:39	1

Lab Sample ID: 500-107556-7 MS
Matrix: Solid
Analysis Batch: 323536

Client Sample ID: 2746-01-B07 (0-8)
Prep Type: TCLP
Prep Batch: 323256

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0060		0.500	0.429		mg/L		86	50 - 150
Thallium	<0.0020		0.100	0.100		mg/L		100	50 - 150

Lab Sample ID: 500-107556-7 DU
Matrix: Solid
Analysis Batch: 323536

Client Sample ID: 2746-01-B07 (0-8)
Prep Type: TCLP
Prep Batch: 323256

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: LCS 500-323225/13-A
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00195		mg/L		98	80 - 120

Lab Sample ID: LB 500-323088/1-C
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323225

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/17/16 16:15	02/18/16 09:20	1

Lab Sample ID: 500-107556-2 MS
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: 2746-01-B05 (8-16)
Prep Type: TCLP
Prep Batch: 323225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00115		mg/L		115	50 - 150

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: 500-107556-2 DU
Matrix: Solid
Analysis Batch: 323440

Client Sample ID: 2746-01-B05 (8-16)
Prep Type: TCLP
Prep Batch: 323225

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-323063/12-A
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/16/16 16:00	02/17/16 11:40	1

Lab Sample ID: LCS 500-323063/13-A
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323063
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.164		mg/Kg		98	80 - 120

Lab Sample ID: 500-107556-1 MS
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 323063
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.022		0.0935	0.102		mg/Kg	☼	86	75 - 125

Lab Sample ID: 500-107556-1 MSD
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 323063
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.022		0.0912	0.111		mg/Kg	☼	98	75 - 125	9	20

Lab Sample ID: 500-107556-1 DU
Matrix: Solid
Analysis Batch: 323274

Client Sample ID: 2746-01-B05 (0-8)
Prep Type: Total/NA
Prep Batch: 323063

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.022		0.0184		mg/Kg	☼	16	20

Method: 9045D - pH

Lab Sample ID: 500-107556-11 DU
Matrix: Solid
Analysis Batch: 323341

Client Sample ID: 2746-01-B07 (24-30)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.24		8.220		SU		NaN	

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Date Collected: 02/12/16 09:15

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 04:41	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 14:20	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 13:47	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:19		
					(End)	02/17/16 15:21		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B05 (0-8)

Lab Sample ID: 500-107556-1

Date Collected: 02/12/16 09:15

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/17/16 23:05	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 14:00	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 16:57	PJ1	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:45	MJD	TAL CHI

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 05:08	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 14:27	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323536	02/18/16 13:51	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:24	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:21 (End) 02/17/16 15:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B05 (8-16)

Lab Sample ID: 500-107556-2

Date Collected: 02/12/16 09:20

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/17/16 23:30	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 14:29	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:02	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 20:48	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:57	MJD	TAL CHI

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 05:15	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 14:34	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 13:55	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:30	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:23 (End) 02/17/16 15:26	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B05 (24-30)

Lab Sample ID: 500-107556-3

Date Collected: 02/12/16 09:22

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/17/16 23:55	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 14:57	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:06	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 20:52	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 11:59	MJD	TAL CHI

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Date Collected: 02/12/16 09:25

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 05:22	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 14:40	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 14:12	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:32	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:26 (End) 02/17/16 15:28	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B05 (16-24)

Lab Sample ID: 500-107556-4

Date Collected: 02/12/16 09:25

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 00:20	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 15:26	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:24	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 20:56	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 21:01	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:01	MJD	TAL CHI

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 05:28	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 14:47	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 14:16	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:34	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:28		
					(End)	02/17/16 15:30		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 00:46	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 15:55	AJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (0-8)

Lab Sample ID: 500-107556-5

Date Collected: 02/12/16 09:55

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:29	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 21:06	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:03	MJD	TAL CHI

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 05:51	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 14:54	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 14:20	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:43	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:30		
					(End)	02/17/16 15:32		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 01:11	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 16:23	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:34	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 21:11	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 21:24	KML	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B06 (8-16)

Lab Sample ID: 500-107556-6

Date Collected: 02/12/16 10:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:06	MJD	TAL CHI

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 05:58	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 15:01	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 14:24	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:44	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:32		
					(End)	02/17/16 15:34		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B07 (0-8)

Lab Sample ID: 500-107556-7

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 01:36	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 16:52	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:39	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 21:28	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 21:33	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:08	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:05	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 15:44	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 14:40	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:46	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:34		
					(End)	02/17/16 15:36		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B07 (0-8)D

Lab Sample ID: 500-107556-8

Date Collected: 02/12/16 10:52

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 02:01	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 17:20	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:44	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 21:37	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 21:42	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:10	MJD	TAL CHI

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:11	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:16	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 14:44	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:48	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:36		
					(End)	02/17/16 15:38		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B07 (8-16)

Lab Sample ID: 500-107556-9

Date Collected: 02/12/16 10:57

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 02:26	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 17:49	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:49	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 21:46	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 21:51	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:12	MJD	TAL CHI

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:18	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:23	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323536	02/18/16 14:48	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:50	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:38 (End) 02/17/16 15:41	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B07 (16-24)

Lab Sample ID: 500-107556-10

Date Collected: 02/12/16 11:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 02:52	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 18:18	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:54	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 21:55	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 22:00	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:14	MJD	TAL CHI

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:25	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:29	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:01	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:52	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:41 (End) 02/17/16 15:43	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B07 (24-30)

Lab Sample ID: 500-107556-11

Date Collected: 02/12/16 11:05

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 03:17	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 18:46	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 17:59	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:04	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 22:18	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:20	MJD	TAL CHI

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Date Collected: 02/12/16 11:35

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:32	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:36	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:05	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:54	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:45 (End) 02/17/16 15:47	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (0-7)

Lab Sample ID: 500-107556-12

Date Collected: 02/12/16 11:35

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 03:43	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 19:15	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 18:04	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:22	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:22	MJD	TAL CHI

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:38	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:43	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:09	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:56	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:47		
					(End)	02/17/16 15:49		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 04:09	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 19:44	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 18:09	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B08 (7-14)

Lab Sample ID: 500-107556-13

Date Collected: 02/12/16 11:40

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:27	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 22:32	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:24	MJD	TAL CHI

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Date Collected: 02/12/16 12:50

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:45	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:50	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:13	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 09:58	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:49		
					(End)	02/17/16 15:51		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B09 (0-8)

Lab Sample ID: 500-107556-14

Date Collected: 02/12/16 12:50

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 04:34	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 20:13	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 18:22	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:36	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:26	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Date Collected: 02/12/16 12:53

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 06:52	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 16:56	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:17	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:00	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:51		
					(End)	02/17/16 15:54		
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B09 (8-16)

Lab Sample ID: 500-107556-15

Date Collected: 02/12/16 12:53

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 05:00	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 20:41	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 18:27	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:41	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:28	MJD	TAL CHI

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 07:15	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 17:33	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:21	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:06	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:54 (End) 02/17/16 15:56	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B09 (16-24)

Lab Sample ID: 500-107556-16

Date Collected: 02/12/16 12:56

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 05:25	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 21:10	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 18:32	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:46	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 22:51	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:31	MJD	TAL CHI

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323102	02/16/16 16:00	FXG	TAL CHI
SPLP East	Prep	3010A			323349	02/18/16 08:53	JEF	TAL CHI
SPLP East	Analysis	6010B		1	323754	02/20/16 07:21	KML	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6010B		1	323563	02/18/16 17:40	PJ1	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323256	02/17/16 14:47	JNH	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 15:25	PFK	TAL CHI
TCLP	Leach	1311			323088	02/16/16 16:00	FXG	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	7470A			323225	02/17/16 16:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	323440	02/18/16 10:08	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 15:56 (End) 02/17/16 15:58	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322900	02/15/16 14:09	LWN	TAL CHI

Client Sample ID: 2746-01-B09 (24-30)

Lab Sample ID: 500-107556-17

Date Collected: 02/12/16 13:00

Matrix: Solid

Date Received: 02/12/16 16:10

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			322961	02/13/16 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		1	323207	02/18/16 05:51	BDW	TAL CHI
Total/NA	Prep	3541			322938	02/15/16 19:00	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323893	02/22/16 21:39	AJD	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323522	02/18/16 18:37	PJ1	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323716	02/19/16 22:55	KML	TAL CHI
Total/NA	Prep	3050B			323078	02/16/16 15:08	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323716	02/19/16 23:00	KML	TAL CHI
Total/NA	Prep	7471B			323063	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:33	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107556-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211


Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107556
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 32, 4.6, 21

Client		Client Project #		Preservative		Parameter													
E+E		1009346.0005.01																	
Project Name		Lab Project #																	
I-90		50011819																	
Project Location/State		Lab PM																	
Cook County, IL		D. Wright																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix													Comments
			Date	Time															
1		2746-01-B05 (0-8)	2/12/16	0915	2	S	X	X	X	X	X								
2		2746-01-B05 (8-16)	2/12	0920	2	S	X	X	X	X	X								
3		2746-01-B05 (24-30)	2/12	0922	2	S	X	X	X	X	X								
4		2746-01-B05 (16-24)	2/12	0925	2	S	X	X	X	X	X								
5		2746-01-B06 (0-8)	2/12	0955	2	S	X	X	X	X	X								
6		2746-01-B06 (8-16)	2/12	1000	2	S	X	X	X	X	X								
7		2746-01-B07 (0-8)	2/12	1052	2	S	X	X	X	X	X								
8		2746-01-B07 (0-8) D	2/12	1052	2	S	X	X	X	X	X								
9		2746-01-B07 (8-16)	2/12	1057	2	S	X	X	X	X	X								
10		2746-01-B07 (16-24)	2/12	1100	2	S	X	X	X	X	X								

Preservative Key

 500-107556 COC
 Comments

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other
 Requested Due Date _____

Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>[Signature]</i>	Company E+E	Date 2/12/16	Time 1320	Received By <i>[Signature]</i>	Company E+E	Date 2/12/16	Time 1320	Lab Courier TA
Relinquished By <i>[Signature]</i>	Company E+E	Date 2/12/16	Time 1340	Received By <i>[Signature]</i>	Company TA	Date 2/12/16	Time 13:40	Shipped
Relinquished By <i>[Signature]</i>	Company TA	Date 2/12/16	Time 1415	Received By <i>[Signature]</i>	Company TA	Date 2/12/16	Time 1415	Hand Delivered

Client Comments: _____
 Lab Comments: _____
 02/12/16 10:10

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107556
 Chain of Custody Number: _____
 Page _____ of _____
 Temperature °C of Cooler: 32, 4.6, 2.1

Client		Client Project #		Preservative		Parameter												Preservative Key	
E+E		1009341.0005.01																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaOH 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Total TML Metals		TCLP/SPLP Metals		pH/Percent Solids							
I-90		50011918																	
Project Location/State		Lab PM		Date		Time													
Cook County, IL		D. Wright																	
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix													Comments
			Date	Time															
11		2746-01-B07(24-30)	2/12/16	1105	2	S	X	X	X	X	X	X	X						
12		2746-01-B08(0-7)	2/12	1135	2	S	X	X	X	X	X	X	X						
13		2746-01-B08(7-14)	2/12	1140	2	S	X	X	X	X	X	X	X						
14		2746-01-B09(0-8)	2/12	1250	2	S	X	X	X	X	X	X	X						
15		2746-01-B09(8-16)	2/12	1253	2	S	X	X	X	X	X	X	X						
16		2746-01-B09(16-24)	2/12	1256	2	S	X	X	X	X	X	X	X						
17		2746-01-B09(24-30)	2/12	1300	2	S	X	X	X	X	X	X	X						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <i>[Signature]</i>	Company: E+E	Date: 2/12/16	Time: 1320	Received By: <i>[Signature]</i>	Company: E+E	Date: 2/12/16	Time: 1320
Relinquished By: <i>[Signature]</i>	Company: E+E	Date: 2/12/16	Time: 1340	Received By: <i>[Signature]</i>	Company: TA	Date: 2/12/16	Time: 13:40
Relinquished By: <i>[Signature]</i>	Company: TA	Date: 2/12/16	Time: 1425	Received By: <i>[Signature]</i>	Company: TA	Date: 2/12/16	Time: 1425

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: 2/12/16 1618

Lab Comments: still saw TA at 2/12/16 16:10

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107556-1

Login Number: 107556

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1, 3.2, 4.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-107588-1
Client Project/Site: IDOT - Interstate 90 - WO 005

For:
Ecology and Environment, Inc.
33 West Monroe St.
Suite 1410
Chicago, Illinois 60603

Attn: Mr. Dean Tiebout



Authorized for release by:
2/24/2016 8:06:56 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Job ID: 500-107588-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-107588-1

Comments

No additional comments.

Receipt

The samples were received on 2/15/2016 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 500-323326 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 2746-01-B13 (0-8) (500-107588-1), 2746-01-B13 (8-15) (500-107588-2), 2746-01-B12 (0-8) (500-107588-3), 2746-01-B12 (8-16) (500-107588-4), 2746-01-B12 (16-24) (500-107588-5), 2746-01-B12 (24-30) (500-107588-6), 2746-01-B11 (0-7) (500-107588-7), 2746-01-B11 (14-20) (500-107588-9), 2746-01-B10 (0-6) (500-107588-10) and 2746-01-B10 (6-11) (500-107588-11).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 500-323326 recovered outside control limits for the following analyte: Vinyl Acetate. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 500-323512: Bromomethane. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-322939 and analytical batch 500-323792 had 1 analyte outside control limits: 2,4-Dinitrophenol; therefore, corrective action was not performed. These results have been reported and qualified.

Method(s) 8270D: The following sample contained one acid surrogate and/or one base/neutral surrogate outside acceptance limits: 2746-01-B10 (0-6) (500-107588-10). The laboratory's SOP allows one acid and one base/neutral surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The following samples was diluted due to the abundance of target and non-target analytes: 2746-01-B10 (0-6) (500-107588-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	18		0.54	0.099	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.35		0.22	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	5.6	F1	2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.056	J	0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	50000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	11	B	0.54	0.093	mg/Kg	1	☼	6010B	Total/NA
Cobalt	3.7		0.27	0.061	mg/Kg	1	☼	6010B	Total/NA
Copper	15		0.54	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	11000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	27	F2	0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.4	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	230	F2 B	0.54	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.54	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	970	F1	27	4.4	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		54	7.1	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.079	mg/Kg	1	☼	6010B	Total/NA
Zinc	54		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.19	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.3		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.083	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.14		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.012	J	0.018	0.0092	mg/Kg	1	☼	7471B	Total/NA
pH	8.51		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.048		0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.067		0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.018	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.019	J	0.039	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.9		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	39		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.9	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	61000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	15		0.29	0.065	mg/Kg	1	☼	6010B	Total/NA
Copper	28		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	15		0.29	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	26000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	370	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	42		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		29	4.7	mg/Kg	1	☼	6010B	Total/NA
Sodium	170		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.71		0.57	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (8-15) (Continued)

Lab Sample ID: 500-107588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	18		0.29	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.57		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.68		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.013	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.0		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.27	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.18		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.017	J	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA
pH	8.02		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.010	J	0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0099	J	0.034	0.0093	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	31		0.53	0.097	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.53		0.21	0.046	mg/Kg	1	☼	6010B	Total/NA
Boron	8.6		2.7	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16		0.11	0.031	mg/Kg	1	☼	6010B	Total/NA
Calcium	69000	B	110	34	mg/Kg	10	☼	6010B	Total/NA
Chromium	13	B	0.53	0.091	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.9		0.27	0.060	mg/Kg	1	☼	6010B	Total/NA
Copper	18		0.53	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.1	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.27	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.3	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	380	B	0.53	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	21		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	1900		27	4.3	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.31	J	0.53	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	160		53	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		0.27	0.078	mg/Kg	1	☼	6010B	Total/NA
Zinc	55		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.73		0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.12	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.061		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.035		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.06		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.020	J	0.035	0.0064	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.054		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (8-16) (Continued)

Lab Sample ID: 500-107588-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.020	J	0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	5.8		0.51	0.093	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.19	J	0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	4.9		2.5	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.078	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	93000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	5.4	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.9		0.25	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	12		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	7900		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	6.4		0.25	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	44000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	460	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	660		25	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	9.1		0.25	0.074	mg/Kg	1	☼	6010B	Total/NA
Zinc	50		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.12	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.69		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.6		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.039		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.23	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.022	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.010	J	0.016	0.0083	mg/Kg	1	☼	7471B	Total/NA
pH	7.95		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0098	J	0.039	0.0060	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.026	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.025	J	0.039	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.011	J	0.039	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.3		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	45		0.57	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.23	0.049	mg/Kg	1	☼	6010B	Total/NA
Boron	13		2.8	0.40	mg/Kg	1	☼	6010B	Total/NA
Calcium	70000	B	110	37	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.57	0.098	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.064	mg/Kg	1	☼	6010B	Total/NA
Copper	27		0.57	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	18000		11	4.4	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	27000		5.7	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	340	B	0.57	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		0.57	0.15	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (16-24) (Continued)

Lab Sample ID: 500-107588-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	210		57	7.5	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.47	J	0.57	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.083	mg/Kg	1	☼	6010B	Total/NA
Zinc	56		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	0.62		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.015	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.5		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.037		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.095	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.64		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.027		0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.29		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.017	J	0.038	0.0058	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.021	J	0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.065		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.016	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0056	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.017	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Arsenic	8.7		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	24		0.55	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.51		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.7	0.38	mg/Kg	1	☼	6010B	Total/NA
Calcium	83000	B	110	35	mg/Kg	10	☼	6010B	Total/NA
Chromium	12	B	0.55	0.094	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.27	0.062	mg/Kg	1	☼	6010B	Total/NA
Copper	25		0.55	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		11	4.2	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.27	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	35000		5.5	2.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	450	B	0.55	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	29		0.55	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2000		27	4.5	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.34	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Sodium	190		55	7.2	mg/Kg	1	☼	6010B	Total/NA
Thallium	0.50	J	0.55	0.27	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		0.27	0.080	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.48	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.77		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.017	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.041		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.072	J B	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (24-30) (Continued)

Lab Sample ID: 500-107588-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.54		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.040		0.018	0.0095	mg/Kg	1	☼	7471B	Total/NA
pH	8.48		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0061	J	0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Arsenic	6.8		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	43		0.51	0.094	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.61		0.20	0.044	mg/Kg	1	☼	6010B	Total/NA
Boron	6.4		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.083	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	25000	B	10	3.3	mg/Kg	1	☼	6010B	Total/NA
Chromium	12	B	0.51	0.088	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.8		0.26	0.058	mg/Kg	1	☼	6010B	Total/NA
Copper	17		0.51	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	17000		10	3.9	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	16000		5.1	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	230	B	0.51	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		0.51	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	990		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	0.51	0.25	mg/Kg	1	☼	6010B	Total/NA
Sodium	140		51	6.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	22		0.26	0.075	mg/Kg	1	☼	6010B	Total/NA
Zinc	63		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.5		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.14	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.012	J	0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.029		0.016	0.0086	mg/Kg	1	☼	7471B	Total/NA
pH	8.16		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.0066	J	0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.037		0.034	0.0048	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.013	J	0.034	0.0068	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.013	J	0.034	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.012	J	0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.9		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	36		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	11		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	15	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (7-14) (Continued)

Lab Sample ID: 500-107588-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	18		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	25000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	320	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	2300		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.28	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	220		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	45		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.35	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.022	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.059	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.10		0.025	0.010	mg/L	1		6010B	SPLP East
pH	7.92		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.047		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.014	J	0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.7		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	46		0.56	0.10	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.66		0.22	0.048	mg/Kg	1	☼	6010B	Total/NA
Boron	12		2.8	0.39	mg/Kg	1	☼	6010B	Total/NA
Calcium	73000	B	110	36	mg/Kg	10	☼	6010B	Total/NA
Chromium	17	B	0.56	0.096	mg/Kg	1	☼	6010B	Total/NA
Cobalt	13		0.28	0.063	mg/Kg	1	☼	6010B	Total/NA
Copper	22		0.56	0.12	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		11	4.3	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.28	0.14	mg/Kg	1	☼	6010B	Total/NA
Magnesium	24000		5.6	2.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	320	B	0.56	0.11	mg/Kg	1	☼	6010B	Total/NA
Nickel	34		0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	2600		28	4.6	mg/Kg	1	☼	6010B	Total/NA
Sodium	180		56	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		0.28	0.081	mg/Kg	1	☼	6010B	Total/NA
Zinc	57		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	0.60		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.077	J	0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Manganese	2.3		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.036		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.11	J B	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.28		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (14-20) (Continued)

Lab Sample ID: 500-107588-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.18		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.014	J	0.040	0.0061	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0090	J	0.040	0.0053	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.0073	J	0.040	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.0082	J	0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15		0.040	0.0056	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.031	J	0.040	0.0067	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.085	J	0.20	0.061	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.22		0.040	0.0074	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.37		0.040	0.0079	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.25		0.040	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.040	0.0086	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.19		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.058		0.040	0.0077	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.040	0.013	mg/Kg	1	☼	8270D	Total/NA
Arsenic	11		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Barium	120		0.59	0.11	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.88		0.24	0.051	mg/Kg	1	☼	6010B	Total/NA
Boron	9.3		3.0	0.41	mg/Kg	1	☼	6010B	Total/NA
Cadmium	2.7		0.12	0.034	mg/Kg	1	☼	6010B	Total/NA
Calcium	16000	B	12	3.8	mg/Kg	1	☼	6010B	Total/NA
Chromium	28	B	0.59	0.10	mg/Kg	1	☼	6010B	Total/NA
Cobalt	11		0.30	0.067	mg/Kg	1	☼	6010B	Total/NA
Copper	7200		5.9	1.3	mg/Kg	10	☼	6010B	Total/NA
Iron	28000		12	4.6	mg/Kg	1	☼	6010B	Total/NA
Lead	330		3.0	1.5	mg/Kg	10	☼	6010B	Total/NA
Magnesium	9300		5.9	2.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	330	B	0.59	0.12	mg/Kg	1	☼	6010B	Total/NA
Nickel	39		0.59	0.16	mg/Kg	1	☼	6010B	Total/NA
Potassium	1700		30	4.8	mg/Kg	1	☼	6010B	Total/NA
Selenium	2.1		0.59	0.29	mg/Kg	1	☼	6010B	Total/NA
Silver	0.56		0.30	0.069	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		59	7.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	23		0.30	0.086	mg/Kg	1	☼	6010B	Total/NA
Zinc	5300		12	3.7	mg/Kg	10	☼	6010B	Total/NA
Barium	0.70		0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.081	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.013		0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.056		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.4		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.026		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	5.5	B	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.064		0.0075	0.0075	mg/L	1		6010B	SPLP East

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (0-6) (Continued)

Lab Sample ID: 500-107588-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.23		0.025	0.010	mg/L	1		6010B	SPLP East
Zinc	3.0	B	0.10	0.020	mg/L	1		6010B	SPLP East
Mercury	0.053		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.14		0.200	0.200	SU	1		9045D	Total/NA

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.0098	J	0.033	0.0047	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0070	J	0.033	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0061	J	0.033	0.0045	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.29	J	1.0	0.22	mg/Kg	1	☼	6010B	Total/NA
Arsenic	5.4		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	4.6		0.52	0.095	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.22		0.21	0.045	mg/Kg	1	☼	6010B	Total/NA
Boron	4.7		2.6	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.036	J	0.10	0.030	mg/Kg	1	☼	6010B	Total/NA
Calcium	10000	B	100	33	mg/Kg	10	☼	6010B	Total/NA
Chromium	4.9	B	0.52	0.089	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.4		0.26	0.059	mg/Kg	1	☼	6010B	Total/NA
Copper	13		0.52	0.11	mg/Kg	1	☼	6010B	Total/NA
Iron	8900		10	4.0	mg/Kg	1	☼	6010B	Total/NA
Lead	7.6		0.26	0.13	mg/Kg	1	☼	6010B	Total/NA
Magnesium	38000		5.2	2.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	430	B	0.52	0.10	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		0.52	0.14	mg/Kg	1	☼	6010B	Total/NA
Potassium	660		26	4.2	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	0.52	0.26	mg/Kg	1	☼	6010B	Total/NA
Sodium	150		52	6.8	mg/Kg	1	☼	6010B	Total/NA
Vanadium	10		0.26	0.076	mg/Kg	1	☼	6010B	Total/NA
Zinc	43		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	0.073	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.63		0.50	0.050	mg/L	1		6010B	TCLP
Cobalt	0.034		0.025	0.010	mg/L	1		6010B	TCLP
Manganese	1.9		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.046		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.15	J B	0.50	0.020	mg/L	1		6010B	TCLP
pH	8.19		0.200	0.200	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010B	SPLP Metals	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-107588-1	2746-01-B13 (0-8)	Solid	02/15/16 09:05	02/15/16 14:00
500-107588-2	2746-01-B13 (8-15)	Solid	02/15/16 09:10	02/15/16 14:00
500-107588-3	2746-01-B12 (0-8)	Solid	02/15/16 09:45	02/15/16 14:00
500-107588-4	2746-01-B12 (8-16)	Solid	02/15/16 09:50	02/15/16 14:00
500-107588-5	2746-01-B12 (16-24)	Solid	02/15/16 10:03	02/15/16 14:00
500-107588-6	2746-01-B12 (24-30)	Solid	02/15/16 10:10	02/15/16 14:00
500-107588-7	2746-01-B11 (0-7)	Solid	02/15/16 11:05	02/15/16 14:00
500-107588-8	2746-01-B11 (7-14)	Solid	02/15/16 11:10	02/15/16 14:00
500-107588-9	2746-01-B11 (14-20)	Solid	02/15/16 11:15	02/15/16 14:00
500-107588-10	2746-01-B10 (0-6)	Solid	02/15/16 11:40	02/15/16 14:00
500-107588-11	2746-01-B10 (6-11)	Solid	02/15/16 11:45	02/15/16 14:00



Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Date Collected: 02/15/16 09:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 87.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Benzene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Bromodichloromethane	<0.0039		0.0039	0.00067	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Bromoform	<0.0039		0.0039	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Carbon disulfide	<0.0039		0.0039	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Carbon tetrachloride	<0.0039		0.0039	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Chlorobenzene	<0.0039		0.0039	0.00093	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Chloroethane	<0.0039		0.0039	0.0017	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Chloroform	<0.0039		0.0039	0.00077	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Chloromethane	<0.0039		0.0039	0.00095	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Dibromochloromethane	<0.0039		0.0039	0.00045	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,1-Dichloroethane	<0.0039		0.0039	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,2-Dichloroethane	<0.0039		0.0039	0.00059	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,3-Dichloropropane, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Ethylbenzene	<0.0039		0.0039	0.00098	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Methylene Chloride	<0.0039		0.0039	0.0030	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00093	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Styrene	<0.0039		0.0039	0.00092	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00063	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Tetrachloroethene	<0.0039		0.0039	0.00082	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Toluene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00092	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00076	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Trichloroethene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Vinyl acetate	<0.0039	*	0.0039	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Vinyl chloride	<0.0039		0.0039	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1
Xylenes, Total	<0.0079		0.0079	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/15/16 14:20	02/18/16 15:36	1
Dibromofluoromethane	106		75 - 120	02/15/16 14:20	02/18/16 15:36	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	02/15/16 14:20	02/18/16 15:36	1
Toluene-d8 (Surr)	108		75 - 122	02/15/16 14:20	02/18/16 15:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.082	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Date Collected: 02/15/16 09:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2-Methylnaphthalene	<0.037		0.037	0.0068	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,4-Dinitrophenol	<0.75	*	0.75	0.65	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Phenanthrene	<0.037		0.037	0.0052	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Pyrene	<0.037		0.037	0.0074	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Date Collected: 02/15/16 09:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:10	02/21/16 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		25 - 110	02/15/16 19:10	02/21/16 21:23	1
Phenol-d5	79		31 - 110	02/15/16 19:10	02/21/16 21:23	1
Nitrobenzene-d5	67		25 - 115	02/15/16 19:10	02/21/16 21:23	1
2-Fluorobiphenyl	71		25 - 119	02/15/16 19:10	02/21/16 21:23	1
2,4,6-Tribromophenol	63		35 - 137	02/15/16 19:10	02/21/16 21:23	1
Terphenyl-d14	104		36 - 134	02/15/16 19:10	02/21/16 21:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.22	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Arsenic	2.6		0.54	0.25	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Barium	18		0.54	0.099	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Beryllium	0.35		0.22	0.047	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Boron	5.6	F1	2.7	0.38	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Cadmium	0.056	J	0.11	0.031	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Calcium	50000	B	110	35	mg/Kg	☼	02/16/16 15:54	02/19/16 17:52	10
Chromium	11	B	0.54	0.093	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Cobalt	3.7		0.27	0.061	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Copper	15		0.54	0.12	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Iron	11000		11	4.2	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Lead	27	F2	0.27	0.13	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Magnesium	25000		5.4	2.2	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Manganese	230	F2 B	0.54	0.11	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Nickel	11		0.54	0.15	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Potassium	970	F1	27	4.4	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Sodium	310		54	7.1	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Vanadium	15		0.27	0.079	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1
Zinc	54		1.1	0.34	mg/Kg	☼	02/16/16 15:54	02/18/16 23:34	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.19	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 03:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 03:53	1
Boron	0.63		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 03:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Date Collected: 02/15/16 09:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 87.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 03:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:53	1
Cobalt	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:53	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 03:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 03:53	1
Manganese	1.3		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:53	1
Nickel	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 03:53	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:53	1
Zinc	0.083	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 03:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.14		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 15:24	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:19	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:19	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0092	mg/Kg	☼	02/16/16 16:00	02/17/16 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			02/17/16 15:58	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0030	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Benzene	<0.0039		0.0039	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Bromodichloromethane	<0.0039		0.0039	0.00065	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Bromoform	<0.0039		0.0039	0.00079	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Bromomethane	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
2-Butanone (MEK)	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Carbon disulfide	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Carbon tetrachloride	<0.0039		0.0039	0.00083	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Chlorobenzene	<0.0039		0.0039	0.00091	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Chloroethane	<0.0039		0.0039	0.0016	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Chloroform	<0.0039		0.0039	0.00075	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Chloromethane	<0.0039		0.0039	0.00093	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
cis-1,2-Dichloroethene	<0.0039		0.0039	0.00079	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
cis-1,3-Dichloropropene	<0.0039		0.0039	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Dibromochloromethane	<0.0039		0.0039	0.00044	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,1-Dichloroethane	<0.0039		0.0039	0.00080	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,2-Dichloroethane	<0.0039		0.0039	0.00057	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,1-Dichloroethene	<0.0039		0.0039	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,2-Dichloropropane	<0.0039		0.0039	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,3-Dichloropropene, Total	<0.0039		0.0039	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Ethylbenzene	<0.0039		0.0039	0.00096	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Methylene Chloride	<0.0039		0.0039	0.0029	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.00080	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Methyl tert-butyl ether	<0.0039		0.0039	0.00091	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Styrene	<0.0039		0.0039	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,1,2,2-Tetrachloroethane	<0.0039		0.0039	0.00061	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Tetrachloroethene	<0.0039		0.0039	0.00080	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Toluene	<0.0039		0.0039	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
trans-1,2-Dichloroethene	<0.0039		0.0039	0.00097	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
trans-1,3-Dichloropropene	<0.0039		0.0039	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,1,1-Trichloroethane	<0.0039		0.0039	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
1,1,2-Trichloroethane	<0.0039		0.0039	0.00075	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Trichloroethene	<0.0039		0.0039	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Vinyl acetate	<0.0039 *		0.0039	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Vinyl chloride	<0.0039		0.0039	0.00092	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1
Xylenes, Total	<0.0077		0.0077	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122	02/15/16 14:20	02/18/16 16:01	1
Dibromofluoromethane	105		75 - 120	02/15/16 14:20	02/18/16 16:01	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	02/15/16 14:20	02/18/16 16:01	1
Toluene-d8 (Surr)	116		75 - 122	02/15/16 14:20	02/18/16 16:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.087	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2-Methylnaphthalene	0.048		0.039	0.0072	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,4-Dinitrophenol	<0.79	*	0.79	0.69	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Phenanthrene	0.067		0.039	0.0055	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Pyrene	0.018 J		0.039	0.0078	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 84.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.019	J	0.039	0.011	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Benzo[b]fluoranthene	<0.039		0.039	0.0085	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Benzo[a]pyrene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
Benzo[g,h,i]perylene	0.014	J	0.039	0.013	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:10	02/21/16 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		25 - 110	02/15/16 19:10	02/21/16 21:52	1
Phenol-d5	70		31 - 110	02/15/16 19:10	02/21/16 21:52	1
Nitrobenzene-d5	64		25 - 115	02/15/16 19:10	02/21/16 21:52	1
2-Fluorobiphenyl	67		25 - 119	02/15/16 19:10	02/21/16 21:52	1
2,4,6-Tribromophenol	75		35 - 137	02/15/16 19:10	02/21/16 21:52	1
Terphenyl-d14	108		36 - 134	02/15/16 19:10	02/21/16 21:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Arsenic	7.9		0.57	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Barium	39		0.57	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Beryllium	0.59		0.23	0.049	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Boron	11		2.9	0.40	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Calcium	61000	B	110	37	mg/Kg	☼	02/16/16 15:54	02/19/16 18:13	10
Chromium	15	B	0.57	0.098	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Cobalt	15		0.29	0.065	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Copper	28		0.57	0.12	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Iron	19000		11	4.4	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Lead	15		0.29	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Magnesium	26000		5.7	2.3	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Manganese	370	B	0.57	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Nickel	42		0.57	0.15	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Potassium	2300		29	4.7	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Sodium	170		57	7.5	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Thallium	0.71		0.57	0.28	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Vanadium	18		0.29	0.083	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1
Zinc	50		1.1	0.36	mg/Kg	☼	02/16/16 15:54	02/19/16 00:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.57		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:16	1
Boron	0.68		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:16	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 84.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 04:16	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:16	1
Cobalt	0.013	J	0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:16	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 04:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 04:16	1
Manganese	2.0		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:16	1
Nickel	0.036		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 04:16	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:16	1
Zinc	0.27	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 04:16	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.18		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 15:31	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:23	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:23	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0098	mg/Kg	☼	02/16/16 16:00	02/17/16 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			02/17/16 16:00	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 92.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0028	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Benzene	<0.0037		0.0037	0.00082	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Bromodichloromethane	<0.0037		0.0037	0.00062	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Bromoform	<0.0037		0.0037	0.00075	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
2-Butanone (MEK)	<0.0037		0.0037	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Carbon disulfide	<0.0037		0.0037	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Carbon tetrachloride	<0.0037		0.0037	0.00079	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Chlorobenzene	<0.0037		0.0037	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Chloroethane	<0.0037		0.0037	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Chloroform	<0.0037		0.0037	0.00072	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Chloromethane	<0.0037		0.0037	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
cis-1,2-Dichloroethene	<0.0037		0.0037	0.00075	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
cis-1,3-Dichloropropene	<0.0037		0.0037	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Dibromochloromethane	<0.0037		0.0037	0.00042	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,1-Dichloroethane	<0.0037		0.0037	0.00076	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,2-Dichloroethane	<0.0037		0.0037	0.00054	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,1-Dichloroethene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,2-Dichloropropane	<0.0037		0.0037	0.00096	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,3-Dichloropropene, Total	<0.0037		0.0037	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Ethylbenzene	<0.0037		0.0037	0.00091	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Methylene Chloride	<0.0037		0.0037	0.0028	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
4-Methyl-2-pentanone (MIBK)	<0.0037		0.0037	0.00076	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Methyl tert-butyl ether	<0.0037		0.0037	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Styrene	<0.0037		0.0037	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,1,2,2-Tetrachloroethane	<0.0037		0.0037	0.00058	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Tetrachloroethene	<0.0037		0.0037	0.00076	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Toluene	<0.0037		0.0037	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
trans-1,2-Dichloroethene	<0.0037		0.0037	0.00092	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
trans-1,3-Dichloropropene	<0.0037		0.0037	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,1,1-Trichloroethane	<0.0037		0.0037	0.00085	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
1,1,2-Trichloroethane	<0.0037		0.0037	0.00071	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Trichloroethene	<0.0037		0.0037	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Vinyl acetate	<0.0037 *		0.0037	0.00098	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Vinyl chloride	<0.0037		0.0037	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1
Xylenes, Total	<0.0073		0.0073	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/15/16 14:20	02/18/16 16:27	1
Dibromofluoromethane	108		75 - 120	02/15/16 14:20	02/18/16 16:27	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/15/16 14:20	02/18/16 16:27	1
Toluene-d8 (Surr)	109		75 - 122	02/15/16 14:20	02/18/16 16:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,4-Dinitrophenol	<0.69	*	0.69	0.60	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Phenanthrene	<0.034		0.034	0.0048	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Pyrene	0.010	J	0.034	0.0068	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.0099	J	0.034	0.0093	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0088	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
Benzo[g,h,i]perylene	<0.034		0.034	0.011	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	02/15/16 19:10	02/21/16 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110	02/15/16 19:10	02/21/16 22:20	1
Phenol-d5	79		31 - 110	02/15/16 19:10	02/21/16 22:20	1
Nitrobenzene-d5	72		25 - 115	02/15/16 19:10	02/21/16 22:20	1
2-Fluorobiphenyl	77		25 - 119	02/15/16 19:10	02/21/16 22:20	1
2,4,6-Tribromophenol	87		35 - 137	02/15/16 19:10	02/21/16 22:20	1
Terphenyl-d14	116		36 - 134	02/15/16 19:10	02/21/16 22:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Arsenic	2.4		0.53	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Barium	31		0.53	0.097	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Beryllium	0.53		0.21	0.046	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Boron	8.6		2.7	0.37	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Cadmium	0.16		0.11	0.031	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Calcium	69000	B	110	34	mg/Kg	☼	02/16/16 15:54	02/19/16 18:17	10
Chromium	13	B	0.53	0.091	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Cobalt	7.9		0.27	0.060	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Copper	18		0.53	0.12	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Iron	16000		11	4.1	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Lead	18		0.27	0.13	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Magnesium	27000		5.3	2.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Manganese	380	B	0.53	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Nickel	21		0.53	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Potassium	1900		27	4.3	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Selenium	0.31	J	0.53	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Sodium	160		53	7.0	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Vanadium	18		0.27	0.078	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1
Zinc	55		1.1	0.34	mg/Kg	☼	02/16/16 15:54	02/19/16 00:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:23	1
Boron	0.73		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:23	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 92.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 04:23	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:23	1
Cobalt	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:23	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 04:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 04:23	1
Manganese	1.9		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:23	1
Nickel	0.012	J	0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:23	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 04:23	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:23	1
Zinc	0.12	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 04:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.061		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 15:38	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:27	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:27	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0091	mg/Kg	☼	02/16/16 16:00	02/17/16 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			02/17/16 16:02	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Date Collected: 02/15/16 09:50

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0029	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Benzene	<0.0038		0.0038	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Bromodichloromethane	<0.0038		0.0038	0.00064	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Bromoform	<0.0038		0.0038	0.00077	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
2-Butanone (MEK)	<0.0038		0.0038	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Carbon disulfide	<0.0038		0.0038	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Carbon tetrachloride	<0.0038		0.0038	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Chlorobenzene	<0.0038		0.0038	0.00089	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Chloroethane	<0.0038		0.0038	0.0016	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Chloroform	<0.0038		0.0038	0.00074	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Chloromethane	<0.0038		0.0038	0.00091	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
cis-1,2-Dichloroethene	<0.0038		0.0038	0.00077	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
cis-1,3-Dichloropropene	<0.0038		0.0038	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Dibromochloromethane	<0.0038		0.0038	0.00043	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,1-Dichloroethane	<0.0038		0.0038	0.00078	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,2-Dichloroethane	<0.0038		0.0038	0.00056	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,1-Dichloroethene	<0.0038		0.0038	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,2-Dichloropropane	<0.0038		0.0038	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,3-Dichloropropane, Total	<0.0038		0.0038	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Ethylbenzene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Methylene Chloride	<0.0038		0.0038	0.0029	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.00078	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Methyl tert-butyl ether	<0.0038		0.0038	0.00089	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Styrene	<0.0038		0.0038	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,1,2,2-Tetrachloroethane	<0.0038		0.0038	0.00060	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Tetrachloroethene	<0.0038		0.0038	0.00079	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Toluene	<0.0038		0.0038	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
trans-1,2-Dichloroethene	<0.0038		0.0038	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
trans-1,3-Dichloropropene	<0.0038		0.0038	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,1,1-Trichloroethane	<0.0038		0.0038	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
1,1,2-Trichloroethane	<0.0038		0.0038	0.00073	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Trichloroethene	<0.0038		0.0038	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Vinyl acetate	<0.0038 *		0.0038	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Vinyl chloride	<0.0038		0.0038	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1
Xylenes, Total	<0.0076		0.0076	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122	02/15/16 14:20	02/18/16 16:52	1
Dibromofluoromethane	106		75 - 120	02/15/16 14:20	02/18/16 16:52	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/15/16 14:20	02/18/16 16:52	1
Toluene-d8 (Surr)	112		75 - 122	02/15/16 14:20	02/18/16 16:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.052	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Date Collected: 02/15/16 09:50

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2-Methylnaphthalene	0.020	J	0.035	0.0064	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,4-Dinitrophenol	<0.71	*	0.71	0.62	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Phenanthrene	0.054		0.035	0.0049	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Anthracene	<0.035		0.035	0.0058	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Carbazole	<0.18		0.18	0.087	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Pyrene	0.020	J	0.035	0.0069	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Date Collected: 02/15/16 09:50

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0095	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Benzo[b]fluoranthene	<0.035		0.035	0.0075	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		25 - 110	02/15/16 19:10	02/22/16 00:44	1
Phenol-d5	67		31 - 110	02/15/16 19:10	02/22/16 00:44	1
Nitrobenzene-d5	56		25 - 115	02/15/16 19:10	02/22/16 00:44	1
2-Fluorobiphenyl	66		25 - 119	02/15/16 19:10	02/22/16 00:44	1
2,4,6-Tribromophenol	70		35 - 137	02/15/16 19:10	02/22/16 00:44	1
Terphenyl-d14	131		36 - 134	02/15/16 19:10	02/22/16 00:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Arsenic	4.0		0.51	0.24	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Barium	5.8		0.51	0.093	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Beryllium	0.19	J	0.20	0.044	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Boron	4.9		2.5	0.36	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Cadmium	0.078	J	0.10	0.030	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Calcium	93000	B	100	33	mg/Kg	☼	02/16/16 15:54	02/19/16 18:28	10
Chromium	5.4	B	0.51	0.088	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Cobalt	5.9		0.25	0.058	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Copper	12		0.51	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Iron	7900		10	3.9	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Lead	6.4		0.25	0.13	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Magnesium	44000		5.1	2.1	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Manganese	460	B	0.51	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Nickel	13		0.51	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Potassium	660		25	4.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Selenium	0.28	J	0.51	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Sodium	220		51	6.7	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Vanadium	9.1		0.25	0.074	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1
Zinc	50		1.0	0.32	mg/Kg	☼	02/16/16 15:54	02/19/16 00:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:30	1
Boron	0.69		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:30	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Date Collected: 02/15/16 09:50

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 04:30	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:30	1
Cobalt	0.041		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:30	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 04:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 04:30	1
Manganese	1.6		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:30	1
Nickel	0.039		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 04:30	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:30	1
Zinc	0.23	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 04:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.022	J	0.025	0.010	mg/L		02/18/16 16:28	02/19/16 16:20	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:31	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.016	0.0083	mg/Kg	☼	02/16/16 16:00	02/17/16 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			02/17/16 16:04	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Benzene	<0.0041		0.0041	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Bromodichloromethane	<0.0041		0.0041	0.00068	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Bromoform	<0.0041		0.0041	0.00083	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
2-Butanone (MEK)	<0.0041		0.0041	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Carbon disulfide	<0.0041		0.0041	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Carbon tetrachloride	<0.0041		0.0041	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Chlorobenzene	<0.0041		0.0041	0.00096	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Chloroethane	<0.0041		0.0041	0.0017	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Chloroform	<0.0041		0.0041	0.00079	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Chloromethane	<0.0041		0.0041	0.00097	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
cis-1,2-Dichloroethene	<0.0041		0.0041	0.00083	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
cis-1,3-Dichloropropene	<0.0041		0.0041	0.00093	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Dibromochloromethane	<0.0041		0.0041	0.00047	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,1-Dichloroethane	<0.0041		0.0041	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,2-Dichloroethane	<0.0041		0.0041	0.00060	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,1-Dichloroethene	<0.0041		0.0041	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,2-Dichloropropane	<0.0041		0.0041	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,3-Dichloropropane, Total	<0.0041		0.0041	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Ethylbenzene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Methylene Chloride	<0.0041		0.0041	0.0031	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Methyl tert-butyl ether	<0.0041		0.0041	0.00096	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Styrene	<0.0041		0.0041	0.00095	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,1,2,2-Tetrachloroethane	<0.0041		0.0041	0.00064	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Tetrachloroethene	<0.0041		0.0041	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Toluene	<0.0041		0.0041	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
trans-1,2-Dichloroethene	<0.0041		0.0041	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
trans-1,3-Dichloropropene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,1,1-Trichloroethane	<0.0041		0.0041	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
1,1,2-Trichloroethane	<0.0041		0.0041	0.00079	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Trichloroethene	<0.0041		0.0041	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Vinyl acetate	<0.0041	*	0.0041	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Vinyl chloride	<0.0041		0.0041	0.00097	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1
Xylenes, Total	<0.0081		0.0081	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122	02/15/16 14:20	02/18/16 17:17	1
Dibromofluoromethane	106		75 - 120	02/15/16 14:20	02/18/16 17:17	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134	02/15/16 14:20	02/18/16 17:17	1
Toluene-d8 (Surr)	114		75 - 122	02/15/16 14:20	02/18/16 17:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.086	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.048	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Naphthalene	0.0098	J	0.039	0.0060	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2-Methylnaphthalene	0.026	J	0.039	0.0072	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Phenanthrene	0.025	J	0.039	0.0054	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Fluoranthene	<0.039		0.039	0.0072	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Pyrene	0.011	J	0.039	0.0077	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:10	02/22/16 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		25 - 110	02/15/16 19:10	02/22/16 01:13	1
Phenol-d5	74		31 - 110	02/15/16 19:10	02/22/16 01:13	1
Nitrobenzene-d5	67		25 - 115	02/15/16 19:10	02/22/16 01:13	1
2-Fluorobiphenyl	71		25 - 119	02/15/16 19:10	02/22/16 01:13	1
2,4,6-Tribromophenol	67		35 - 137	02/15/16 19:10	02/22/16 01:13	1
Terphenyl-d14	132		36 - 134	02/15/16 19:10	02/22/16 01:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Arsenic	7.3		0.57	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Barium	45		0.57	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Beryllium	0.63		0.23	0.049	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Boron	13		2.8	0.40	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Calcium	70000	B	110	37	mg/Kg	☼	02/16/16 15:54	02/19/16 18:32	10
Chromium	17	B	0.57	0.098	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Cobalt	13		0.28	0.064	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Copper	27		0.57	0.12	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Iron	18000		11	4.4	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Lead	13		0.28	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Magnesium	27000		5.7	2.3	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Manganese	340	B	0.57	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Nickel	33		0.57	0.15	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Potassium	2600		28	4.6	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Sodium	210		57	7.5	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Thallium	0.47	J	0.57	0.28	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Vanadium	19		0.28	0.083	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1
Zinc	56		1.1	0.36	mg/Kg	☼	02/16/16 15:54	02/19/16 00:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:36	1
Boron	0.66		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:36	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.3

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 04:36	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:36	1
Cobalt	0.015	J	0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:36	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 04:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 04:36	1
Manganese	2.5		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:36	1
Nickel	0.037		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:36	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 04:36	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:36	1
Zinc	0.095	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 04:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 16:27	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:35	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:35	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0094	mg/Kg	☼	02/16/16 16:00	02/17/16 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.29		0.200	0.200	SU			02/17/16 16:06	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Date Collected: 02/15/16 10:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0032	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Benzene	<0.0042		0.0042	0.00092	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Bromodichloromethane	<0.0042		0.0042	0.00070	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Bromoform	<0.0042		0.0042	0.00085	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Bromomethane	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Carbon disulfide	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Carbon tetrachloride	<0.0042		0.0042	0.00089	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Chlorobenzene	<0.0042		0.0042	0.00098	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Chloroethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Chloroform	<0.0042		0.0042	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00085	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00095	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Dibromochloromethane	<0.0042		0.0042	0.00048	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,1-Dichloroethane	<0.0042		0.0042	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,2-Dichloroethane	<0.0042		0.0042	0.00062	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,3-Dichloropropane, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Methylene Chloride	<0.0042		0.0042	0.0031	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Methyl tert-butyl ether	<0.0042		0.0042	0.00098	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Styrene	<0.0042		0.0042	0.00097	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00066	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Tetrachloroethene	<0.0042		0.0042	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Toluene	<0.0042		0.0042	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00097	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Vinyl acetate	<0.0042	*	0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Vinyl chloride	<0.0042		0.0042	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1
Xylenes, Total	<0.0083		0.0083	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/15/16 14:20	02/18/16 17:42	1
Dibromofluoromethane	107		75 - 120	02/15/16 14:20	02/18/16 17:42	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134	02/15/16 14:20	02/18/16 17:42	1
Toluene-d8 (Surr)	112		75 - 122	02/15/16 14:20	02/18/16 17:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.084	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Date Collected: 02/15/16 10:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Naphthalene	0.017	J	0.038	0.0058	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2-Methylnaphthalene	0.021	J	0.038	0.0070	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,4-Dinitrophenol	<0.77	*	0.77	0.67	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Acenaphthene	<0.038		0.038	0.0068	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Phenanthrene	0.065		0.038	0.0053	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Pyrene	0.016	J	0.038	0.0076	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Benzo[a]anthracene	0.0056	J	0.038	0.0051	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Date Collected: 02/15/16 10:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.017	J	0.038	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
Benzo[g,h,i]perylene	0.013	J	0.038	0.012	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:10	02/22/16 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		25 - 110	02/15/16 19:10	02/22/16 17:13	1
Phenol-d5	85		31 - 110	02/15/16 19:10	02/22/16 17:13	1
Nitrobenzene-d5	59		25 - 115	02/15/16 19:10	02/22/16 17:13	1
2-Fluorobiphenyl	63		25 - 119	02/15/16 19:10	02/22/16 17:13	1
2,4,6-Tribromophenol	65		35 - 137	02/15/16 19:10	02/22/16 17:13	1
Terphenyl-d14	94		36 - 134	02/15/16 19:10	02/22/16 17:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Arsenic	8.7		0.55	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Barium	24		0.55	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Beryllium	0.51		0.22	0.048	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Boron	11		2.7	0.38	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Calcium	83000	B	110	35	mg/Kg	☼	02/16/16 15:54	02/19/16 18:36	10
Chromium	12	B	0.55	0.094	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Cobalt	11		0.27	0.062	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Copper	25		0.55	0.12	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Iron	16000		11	4.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Lead	13		0.27	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Magnesium	35000		5.5	2.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Manganese	450	B	0.55	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Nickel	29		0.55	0.15	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Potassium	2000		27	4.5	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Selenium	0.34	J	0.55	0.27	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Sodium	190		55	7.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Thallium	0.50	J	0.55	0.27	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Vanadium	15		0.27	0.080	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1
Zinc	61		1.1	0.35	mg/Kg	☼	02/16/16 15:54	02/19/16 00:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.48	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:43	1
Boron	0.77		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:43	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Date Collected: 02/15/16 10:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.8

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 04:43	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:43	1
Cobalt	0.017	J	0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:43	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 04:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 04:43	1
Manganese	1.9		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:43	1
Nickel	0.041		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 04:43	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:43	1
Zinc	0.072	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 04:43	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.54		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 16:34	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:39	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:39	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.018	0.0095	mg/Kg	☼	02/16/16 16:00	02/17/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			02/17/16 16:09	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Date Collected: 02/15/16 11:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 90.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0033	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Benzene	<0.0042		0.0042	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Bromodichloromethane	<0.0042		0.0042	0.00071	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Bromoform	<0.0042		0.0042	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
2-Butanone (MEK)	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Carbon disulfide	<0.0042		0.0042	0.0016	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Carbon tetrachloride	<0.0042		0.0042	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Chlorobenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Chloroethane	<0.0042		0.0042	0.0018	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Chloroform	<0.0042		0.0042	0.00082	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Chloromethane	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
cis-1,2-Dichloroethene	<0.0042		0.0042	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
cis-1,3-Dichloropropene	<0.0042		0.0042	0.00096	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Dibromochloromethane	<0.0042		0.0042	0.00049	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,1-Dichloroethane	<0.0042		0.0042	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,2-Dichloroethane	<0.0042		0.0042	0.00063	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,1-Dichloroethene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,2-Dichloropropane	<0.0042		0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,3-Dichloropropene, Total	<0.0042		0.0042	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Ethylbenzene	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Methylene Chloride	<0.0042		0.0042	0.0032	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Methyl tert-butyl ether	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Styrene	<0.0042		0.0042	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,1,2,2-Tetrachloroethane	<0.0042		0.0042	0.00067	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Tetrachloroethene	<0.0042		0.0042	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Toluene	<0.0042		0.0042	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
trans-1,2-Dichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
trans-1,3-Dichloropropene	<0.0042		0.0042	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,1,1-Trichloroethane	<0.0042		0.0042	0.00098	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
1,1,2-Trichloroethane	<0.0042		0.0042	0.00082	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Trichloroethene	<0.0042		0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Vinyl acetate	<0.0042	*	0.0042	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Vinyl chloride	<0.0042		0.0042	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1
Xylenes, Total	<0.0084		0.0084	0.0016	mg/Kg	☼	02/15/16 14:20	02/18/16 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122	02/15/16 14:20	02/18/16 18:07	1
Dibromofluoromethane	105		75 - 120	02/15/16 14:20	02/18/16 18:07	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134	02/15/16 14:20	02/18/16 18:07	1
Toluene-d8 (Surr)	109		75 - 122	02/15/16 14:20	02/18/16 18:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.18		0.18	0.078	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
1,3-Dichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Date Collected: 02/15/16 11:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Hexachloroethane	<0.18		0.18	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Nitrobenzene	<0.035		0.035	0.0087	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Isophorone	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,4-Dichlorophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4-Chloroaniline	<0.71		0.71	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2-Methylnaphthalene	<0.035		0.035	0.0064	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,4-Dinitrophenol	<0.71	*	0.71	0.62	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Fluorene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Hexachlorobenzene	<0.071		0.071	0.0081	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Diethyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
N-Nitrosodiphenylamine	<0.18		0.18	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Phenanthrene	<0.035		0.035	0.0049	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Anthracene	<0.035		0.035	0.0059	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Di-n-butyl phthalate	<0.18		0.18	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Fluoranthene	<0.035		0.035	0.0065	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Benzo[a]anthracene	0.0061	J	0.035	0.0047	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Date Collected: 02/15/16 11:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1
3 & 4 Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	74		25 - 110	02/15/16 19:10	02/22/16 17:42	1
Phenol-d5	75		31 - 110	02/15/16 19:10	02/22/16 17:42	1
Nitrobenzene-d5	66		25 - 115	02/15/16 19:10	02/22/16 17:42	1
2-Fluorobiphenyl	61		25 - 119	02/15/16 19:10	02/22/16 17:42	1
2,4,6-Tribromophenol	52		35 - 137	02/15/16 19:10	02/22/16 17:42	1
Terphenyl-d14	79		36 - 134	02/15/16 19:10	02/22/16 17:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Arsenic	6.8		0.51	0.24	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Barium	43		0.51	0.094	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Beryllium	0.61		0.20	0.044	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Boron	6.4		2.6	0.36	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Cadmium	0.083	J	0.10	0.030	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Calcium	25000	B	10	3.3	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Chromium	12	B	0.51	0.088	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Cobalt	6.8		0.26	0.058	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Copper	17		0.51	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Iron	17000		10	3.9	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Lead	20		0.26	0.13	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Magnesium	16000		5.1	2.1	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Manganese	230	B	0.51	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Nickel	18		0.51	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Potassium	990		26	4.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Selenium	0.39	J	0.51	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Sodium	140		51	6.7	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Vanadium	22		0.26	0.075	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1
Zinc	63		1.0	0.32	mg/Kg	☼	02/16/16 15:54	02/19/16 00:30	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:50	1
Boron	0.081	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:50	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Date Collected: 02/15/16 11:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 90.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Chromium	<0.025		0.025	0.010	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Cobalt	<0.025		0.025	0.010	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Iron	<0.40		0.40	0.20	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Manganese	1.5		0.025	0.010	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Nickel	<0.025		0.025	0.010	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Selenium	<0.050		0.050	0.020	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Silver	<0.025		0.025	0.010	mg/L	-	02/18/16 08:50	02/19/16 04:50	1
Zinc	0.14	J B	0.50	0.020	mg/L	-	02/18/16 08:50	02/19/16 04:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.012	J	0.025	0.010	mg/L	-	02/18/16 16:28	02/19/16 16:41	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	02/18/16 08:50	02/18/16 19:43	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	02/18/16 08:50	02/18/16 19:43	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	02/18/16 16:45	02/19/16 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.016	0.0086	mg/Kg	☼	02/16/16 16:00	02/17/16 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU	-		02/17/16 16:11	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.014		0.014	0.0027	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Benzene	<0.0035		0.0035	0.00077	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Bromodichloromethane	<0.0035		0.0035	0.00059	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Bromoform	<0.0035		0.0035	0.00071	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Bromomethane	<0.0035	*	0.0035	0.0013	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
2-Butanone (MEK)	<0.0035		0.0035	0.0012	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Carbon disulfide	<0.0035		0.0035	0.0013	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Carbon tetrachloride	<0.0035		0.0035	0.00074	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Chlorobenzene	<0.0035		0.0035	0.00082	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Chloroethane	<0.0035		0.0035	0.0015	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Chloroform	<0.0035		0.0035	0.00068	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Chloromethane	<0.0035		0.0035	0.00083	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
cis-1,2-Dichloroethene	<0.0035		0.0035	0.00071	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
cis-1,3-Dichloropropene	<0.0035		0.0035	0.00079	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Dibromochloromethane	<0.0035		0.0035	0.00040	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,1-Dichloroethane	<0.0035		0.0035	0.00072	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,2-Dichloroethane	<0.0035		0.0035	0.00051	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,1-Dichloroethene	<0.0035		0.0035	0.0013	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,2-Dichloropropane	<0.0035		0.0035	0.00091	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,3-Dichloropropane, Total	<0.0035		0.0035	0.00098	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Ethylbenzene	<0.0035		0.0035	0.00086	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Methylene Chloride	<0.0035		0.0035	0.0026	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
4-Methyl-2-pentanone (MIBK)	<0.0035		0.0035	0.00072	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Methyl tert-butyl ether	<0.0035		0.0035	0.00082	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Styrene	<0.0035		0.0035	0.00081	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,1,2,2-Tetrachloroethane	<0.0035		0.0035	0.00055	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Tetrachloroethene	<0.0035		0.0035	0.00072	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Toluene	<0.0035		0.0035	0.0012	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
trans-1,2-Dichloroethene	<0.0035		0.0035	0.00087	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
trans-1,3-Dichloropropene	<0.0035		0.0035	0.00098	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,1,1-Trichloroethane	<0.0035		0.0035	0.00081	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
1,1,2-Trichloroethane	<0.0035		0.0035	0.00067	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Trichloroethene	<0.0035		0.0035	0.00094	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Vinyl acetate	<0.0035		0.0035	0.00093	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Vinyl chloride	<0.0035		0.0035	0.00083	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1
Xylenes, Total	<0.0069		0.0069	0.0013	mg/Kg	☼	02/15/16 14:20	02/19/16 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/15/16 14:20	02/19/16 11:13	1
Dibromofluoromethane	102		75 - 120	02/15/16 14:20	02/19/16 11:13	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134	02/15/16 14:20	02/19/16 11:13	1
Toluene-d8 (Surr)	112		75 - 122	02/15/16 14:20	02/19/16 11:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.076	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
1,4-Dichlorobenzene	<0.17		0.17	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2-Methylphenol	<0.17		0.17	0.055	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
N-Nitrosodi-n-propylamine	<0.069		0.069	0.042	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Hexachloroethane	<0.17		0.17	0.052	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Nitrobenzene	<0.034		0.034	0.0085	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.037	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Hexachlorobutadiene	<0.17		0.17	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Naphthalene	<0.034		0.034	0.0053	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,4-Dichlorophenol	<0.34		0.34	0.081	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4-Chloroaniline	<0.69		0.69	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,4,5-Trichlorophenol	<0.34		0.34	0.078	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Hexachlorocyclopentadiene	<0.69		0.69	0.20	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2-Methylnaphthalene	<0.034		0.034	0.0063	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2-Chloronaphthalene	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2-Nitrophenol	<0.34		0.34	0.081	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
3-Nitroaniline	<0.34		0.34	0.11	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Dimethyl phthalate	<0.17		0.17	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,4-Dinitrophenol	<0.69	*	0.69	0.60	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4-Nitrophenol	<0.69		0.69	0.32	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Fluorene	0.0066	J	0.034	0.0048	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Hexachlorobenzene	<0.069		0.069	0.0079	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Diethyl phthalate	<0.17		0.17	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Pentachlorophenol	<0.69		0.69	0.55	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
4,6-Dinitro-2-methylphenol	<0.69		0.69	0.27	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Phenanthrene	0.037		0.034	0.0048	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Anthracene	<0.034		0.034	0.0057	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Fluoranthene	<0.034		0.034	0.0063	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Pyrene	0.013	J	0.034	0.0068	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Butyl benzyl phthalate	<0.17		0.17	0.065	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Benzo[a]anthracene	<0.034		0.034	0.0046	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.013	J	0.034	0.0093	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.048	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Di-n-octyl phthalate	<0.17		0.17	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Benzo[b]fluoranthene	<0.034		0.034	0.0074	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Benzo[k]fluoranthene	<0.034		0.034	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Benzo[a]pyrene	<0.034		0.034	0.0066	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Indeno[1,2,3-cd]pyrene	<0.034		0.034	0.0088	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Dibenz(a,h)anthracene	<0.034		0.034	0.0066	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
Benzo[g,h,i]perylene	0.012	J	0.034	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1
3 & 4 Methylphenol	<0.17		0.17	0.057	mg/Kg	☼	02/15/16 19:10	02/22/16 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		25 - 110	02/15/16 19:10	02/22/16 18:11	1
Phenol-d5	92		31 - 110	02/15/16 19:10	02/22/16 18:11	1
Nitrobenzene-d5	75		25 - 115	02/15/16 19:10	02/22/16 18:11	1
2-Fluorobiphenyl	72		25 - 119	02/15/16 19:10	02/22/16 18:11	1
2,4,6-Tribromophenol	68		35 - 137	02/15/16 19:10	02/22/16 18:11	1
Terphenyl-d14	95		36 - 134	02/15/16 19:10	02/22/16 18:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Arsenic	4.9		0.52	0.24	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Barium	36		0.52	0.095	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Beryllium	0.54		0.21	0.045	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Boron	11		2.6	0.36	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Calcium	73000	B	100	33	mg/Kg	☼	02/16/16 15:54	02/19/16 18:41	10
Chromium	15	B	0.52	0.089	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Cobalt	10		0.26	0.059	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Copper	18		0.52	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Iron	16000		10	4.0	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Lead	11		0.26	0.13	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Magnesium	25000		5.2	2.1	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Manganese	320	B	0.52	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Nickel	27		0.52	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Potassium	2300		26	4.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Selenium	0.28	J	0.52	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Sodium	220		52	6.8	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Vanadium	17		0.26	0.076	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1
Zinc	45		1.0	0.33	mg/Kg	☼	02/16/16 15:54	02/19/16 00:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.35	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 04:57	1
Boron	<0.50		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 04:57	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 04:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:57	1
Cobalt	0.022	J	0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:57	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 04:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 04:57	1
Manganese	2.4		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:57	1
Nickel	0.034		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:57	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 04:57	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 04:57	1
Zinc	0.059	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 04:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.10		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 16:47	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 19:48	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 19:48	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018	0.0093	mg/Kg	☼	02/16/16 16:00	02/17/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			02/17/16 16:13	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0031	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Benzene	<0.0040		0.0040	0.00088	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Bromodichloromethane	<0.0040		0.0040	0.00067	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Bromoform	<0.0040		0.0040	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
2-Butanone (MEK)	<0.0040		0.0040	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Carbon disulfide	<0.0040		0.0040	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Carbon tetrachloride	<0.0040		0.0040	0.00085	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Chlorobenzene	<0.0040		0.0040	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Chloroethane	<0.0040		0.0040	0.0017	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Chloroform	<0.0040		0.0040	0.00078	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Chloromethane	<0.0040		0.0040	0.00096	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
cis-1,2-Dichloroethene	<0.0040		0.0040	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
cis-1,3-Dichloropropene	<0.0040		0.0040	0.00091	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Dibromochloromethane	<0.0040		0.0040	0.00046	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,1-Dichloroethane	<0.0040		0.0040	0.00082	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,2-Dichloroethane	<0.0040		0.0040	0.00059	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,1-Dichloroethene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,2-Dichloropropane	<0.0040		0.0040	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,3-Dichloropropane, Total	<0.0040		0.0040	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Ethylbenzene	<0.0040		0.0040	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Methylene Chloride	<0.0040		0.0040	0.0030	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
4-Methyl-2-pentanone (MIBK)	<0.0040		0.0040	0.00082	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Methyl tert-butyl ether	<0.0040		0.0040	0.00094	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Styrene	<0.0040		0.0040	0.00093	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,1,2,2-Tetrachloroethane	<0.0040		0.0040	0.00063	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Tetrachloroethene	<0.0040		0.0040	0.00083	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Toluene	<0.0040		0.0040	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
trans-1,2-Dichloroethene	<0.0040		0.0040	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
trans-1,3-Dichloropropene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,1,1-Trichloroethane	<0.0040		0.0040	0.00092	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
1,1,2-Trichloroethane	<0.0040		0.0040	0.00077	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Trichloroethene	<0.0040		0.0040	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Vinyl acetate	<0.0040	*	0.0040	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Vinyl chloride	<0.0040		0.0040	0.00095	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1
Xylenes, Total	<0.0080		0.0080	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122	02/15/16 14:20	02/18/16 18:57	1
Dibromofluoromethane	111		75 - 120	02/15/16 14:20	02/18/16 18:57	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/15/16 14:20	02/18/16 18:57	1
Toluene-d8 (Surr)	112		75 - 122	02/15/16 14:20	02/18/16 18:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.19		0.19	0.085	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2-Methylnaphthalene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,4-Dinitrophenol	<0.78	*	0.78	0.68	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Hexachlorobenzene	<0.078		0.078	0.0089	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Phenanthrene	0.047		0.038	0.0054	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Fluoranthene	<0.038		0.038	0.0071	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Pyrene	0.012 J		0.038	0.0076	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	J	0.038	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Benzo[b]fluoranthene	<0.038		0.038	0.0083	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	02/15/16 19:10	02/22/16 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		25 - 110	02/15/16 19:10	02/22/16 18:40	1
Phenol-d5	85		31 - 110	02/15/16 19:10	02/22/16 18:40	1
Nitrobenzene-d5	77		25 - 115	02/15/16 19:10	02/22/16 18:40	1
2-Fluorobiphenyl	70		25 - 119	02/15/16 19:10	02/22/16 18:40	1
2,4,6-Tribromophenol	57		35 - 137	02/15/16 19:10	02/22/16 18:40	1
Terphenyl-d14	93		36 - 134	02/15/16 19:10	02/22/16 18:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Arsenic	5.7		0.56	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Barium	46		0.56	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Beryllium	0.66		0.22	0.048	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Boron	12		2.8	0.39	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Calcium	73000	B	110	36	mg/Kg	☼	02/16/16 15:54	02/19/16 18:45	10
Chromium	17	B	0.56	0.096	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Cobalt	13		0.28	0.063	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Copper	22		0.56	0.12	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Iron	19000		11	4.3	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Lead	12		0.28	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Magnesium	24000		5.6	2.3	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Manganese	320	B	0.56	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Nickel	34		0.56	0.15	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Potassium	2600		28	4.6	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Sodium	180		56	7.4	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Vanadium	19		0.28	0.081	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1
Zinc	57		1.1	0.35	mg/Kg	☼	02/16/16 15:54	02/19/16 00:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.60		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 05:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 05:40	1
Boron	0.077	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 05:40	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.0

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 05:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:40	1
Cobalt	0.014	J	0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:40	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 05:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 05:40	1
Manganese	2.3		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:40	1
Nickel	0.036		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 05:40	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:40	1
Zinc	0.11	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 05:40	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.28		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 16:54	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 20:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 20:08	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18		0.200	0.200	SU			02/17/16 16:15	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Date Collected: 02/15/16 11:40

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Benzene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Bromodichloromethane	<0.0051		0.0051	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Bromoform	<0.0051		0.0051	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
2-Butanone (MEK)	<0.0051		0.0051	0.0018	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Carbon disulfide	<0.0051		0.0051	0.0019	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Carbon tetrachloride	<0.0051		0.0051	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Chlorobenzene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Chloroethane	<0.0051		0.0051	0.0021	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Chloroform	<0.0051		0.0051	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Chloromethane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
cis-1,2-Dichloroethene	<0.0051		0.0051	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
cis-1,3-Dichloropropene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Dibromochloromethane	<0.0051		0.0051	0.00059	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,1-Dichloroethane	<0.0051		0.0051	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,2-Dichloroethane	<0.0051		0.0051	0.00076	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,1-Dichloroethene	<0.0051		0.0051	0.0019	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,2-Dichloropropane	<0.0051		0.0051	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,3-Dichloropropene, Total	<0.0051		0.0051	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Ethylbenzene	<0.0051		0.0051	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Methylene Chloride	<0.0051		0.0051	0.0039	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Methyl tert-butyl ether	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Styrene	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,1,2,2-Tetrachloroethane	<0.0051		0.0051	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Tetrachloroethene	<0.0051		0.0051	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Toluene	<0.0051		0.0051	0.0018	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
trans-1,2-Dichloroethene	<0.0051		0.0051	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
trans-1,3-Dichloropropene	<0.0051		0.0051	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,1,1-Trichloroethane	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
1,1,2-Trichloroethane	<0.0051		0.0051	0.00099	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Trichloroethene	<0.0051		0.0051	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Vinyl acetate	<0.0051	*	0.0051	0.0014	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Vinyl chloride	<0.0051		0.0051	0.0012	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg	☼	02/15/16 14:20	02/18/16 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122	02/15/16 14:20	02/18/16 19:22	1
Dibromofluoromethane	110		75 - 120	02/15/16 14:20	02/18/16 19:22	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134	02/15/16 14:20	02/18/16 19:22	1
Toluene-d8 (Surr)	112		75 - 122	02/15/16 14:20	02/18/16 19:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.20		0.20	0.089	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Date Collected: 02/15/16 11:40

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Nitrobenzene	<0.040		0.040	0.0099	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Naphthalene	0.014	J	0.040	0.0061	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2-Methylnaphthalene	<0.040		0.040	0.0073	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,4-Dinitrophenol	<0.80	*	0.80	0.70	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Acenaphthylene	0.0090	J	0.040	0.0053	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Acenaphthene	0.0073	J	0.040	0.0072	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Fluorene	0.0082	J	0.040	0.0056	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Phenanthrene	0.15		0.040	0.0056	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Anthracene	0.031	J	0.040	0.0067	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Di-n-butyl phthalate	0.085	J	0.20	0.061	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Fluoranthene	0.22		0.040	0.0074	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Pyrene	0.37		0.040	0.0079	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Benzo[a]anthracene	0.20		0.040	0.0054	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Date Collected: 02/15/16 11:40

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.25		0.040	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Benzo[b]fluoranthene	0.35		0.040	0.0086	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Benzo[k]fluoranthene	0.15		0.040	0.012	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Benzo[a]pyrene	0.19		0.040	0.0077	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Indeno[1,2,3-cd]pyrene	0.15		0.040	0.010	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Dibenz(a,h)anthracene	0.058		0.040	0.0077	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
Benzo[g,h,i]perylene	0.17		0.040	0.013	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	02/15/16 19:10	02/22/16 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	91		25 - 110	02/15/16 19:10	02/22/16 19:09	1
Phenol-d5	94		31 - 110	02/15/16 19:10	02/22/16 19:09	1
Nitrobenzene-d5	82		25 - 115	02/15/16 19:10	02/22/16 19:09	1
2-Fluorobiphenyl	78		25 - 119	02/15/16 19:10	02/22/16 19:09	1
2,4,6-Tribromophenol	84		35 - 137	02/15/16 19:10	02/22/16 19:09	1
Terphenyl-d14	135	X	36 - 134	02/15/16 19:10	02/22/16 19:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Arsenic	11		0.59	0.27	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Barium	120		0.59	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Beryllium	0.88		0.24	0.051	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Boron	9.3		3.0	0.41	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Cadmium	2.7		0.12	0.034	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Calcium	16000	B	12	3.8	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Chromium	28	B	0.59	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Cobalt	11		0.30	0.067	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Copper	7200		5.9	1.3	mg/Kg	☼	02/16/16 15:54	02/19/16 18:49	10
Iron	28000		12	4.6	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Lead	330		3.0	1.5	mg/Kg	☼	02/16/16 15:54	02/19/16 18:49	10
Magnesium	9300		5.9	2.4	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Manganese	330	B	0.59	0.12	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Nickel	39		0.59	0.16	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Potassium	1700		30	4.8	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Selenium	2.1		0.59	0.29	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Silver	0.56		0.30	0.069	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Sodium	150		59	7.8	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Vanadium	23		0.30	0.086	mg/Kg	☼	02/16/16 15:54	02/19/16 00:45	1
Zinc	5300		12	3.7	mg/Kg	☼	02/16/16 15:54	02/19/16 18:49	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.70		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 05:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 05:46	1
Boron	0.081	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 05:46	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Date Collected: 02/15/16 11:40

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 82.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.013		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 05:46	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:46	1
Cobalt	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:46	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 05:46	1
Lead	0.056		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 05:46	1
Manganese	1.4		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:46	1
Nickel	0.026		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:46	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 05:46	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:46	1
Zinc	5.5	B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 05:46	1

Method: 6010B - SPLP Metals - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 16:28	02/19/16 17:01	1
Lead	0.064		0.0075	0.0075	mg/L		02/18/16 16:28	02/19/16 17:01	1
Manganese	0.23		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 17:01	1
Zinc	3.0	B	0.10	0.020	mg/L		02/18/16 16:28	02/19/16 17:01	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 20:12	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 20:12	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.020	0.010	mg/Kg	☼	02/16/16 16:00	02/17/16 13:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU			02/17/16 16:17	1

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 93.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0028	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Benzene	<0.0036		0.0036	0.00081	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Bromodichloromethane	<0.0036		0.0036	0.00061	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Bromoform	<0.0036		0.0036	0.00074	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Bromomethane	<0.0036		0.0036	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
2-Butanone (MEK)	<0.0036		0.0036	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Carbon disulfide	<0.0036		0.0036	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Carbon tetrachloride	<0.0036		0.0036	0.00078	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Chlorobenzene	<0.0036		0.0036	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Chloroethane	<0.0036		0.0036	0.0015	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Chloroform	<0.0036		0.0036	0.00071	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Chloromethane	<0.0036		0.0036	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
cis-1,2-Dichloroethene	<0.0036		0.0036	0.00074	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
cis-1,3-Dichloropropene	<0.0036		0.0036	0.00083	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Dibromochloromethane	<0.0036		0.0036	0.00042	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,1-Dichloroethane	<0.0036		0.0036	0.00075	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,2-Dichloroethane	<0.0036		0.0036	0.00054	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,1-Dichloroethene	<0.0036		0.0036	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,2-Dichloropropane	<0.0036		0.0036	0.00095	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,3-Dichloropropane, Total	<0.0036		0.0036	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Ethylbenzene	<0.0036		0.0036	0.00090	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Methylene Chloride	<0.0036		0.0036	0.0027	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
4-Methyl-2-pentanone (MIBK)	<0.0036		0.0036	0.00075	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Methyl tert-butyl ether	<0.0036		0.0036	0.00086	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Styrene	<0.0036		0.0036	0.00085	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,1,2,2-Tetrachloroethane	<0.0036		0.0036	0.00058	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Tetrachloroethene	<0.0036		0.0036	0.00076	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Toluene	<0.0036		0.0036	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
trans-1,2-Dichloroethene	<0.0036		0.0036	0.00091	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
trans-1,3-Dichloropropene	<0.0036		0.0036	0.0010	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,1,1-Trichloroethane	<0.0036		0.0036	0.00084	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
1,1,2-Trichloroethane	<0.0036		0.0036	0.00070	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Trichloroethene	<0.0036		0.0036	0.00098	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Vinyl acetate	<0.0036 *		0.0036	0.00097	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Vinyl chloride	<0.0036		0.0036	0.00087	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1
Xylenes, Total	<0.0073		0.0073	0.0013	mg/Kg	☼	02/15/16 14:20	02/18/16 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122	02/15/16 14:20	02/18/16 19:47	1
Dibromofluoromethane	101		75 - 120	02/15/16 14:20	02/18/16 19:47	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134	02/15/16 14:20	02/18/16 19:47	1
Toluene-d8 (Surr)	111		75 - 122	02/15/16 14:20	02/18/16 19:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.075	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Nitrobenzene	<0.033		0.033	0.0084	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Naphthalene	<0.033		0.033	0.0052	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,4-Dichlorophenol	<0.33		0.33	0.080	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,4,6-Trichlorophenol	<0.33		0.33	0.12	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,4,5-Trichlorophenol	<0.33		0.33	0.077	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Hexachlorocyclopentadiene	<0.68		0.68	0.19	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2-Methylnaphthalene	<0.033		0.033	0.0062	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,6-Dinitrotoluene	<0.17		0.17	0.066	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2-Nitrophenol	<0.33		0.33	0.080	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,4-Dinitrophenol	<0.68	*	0.68	0.59	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Acenaphthene	<0.033		0.033	0.0061	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Fluorene	<0.033		0.033	0.0047	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Phenanthrene	0.0098	J	0.033	0.0047	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Anthracene	<0.033		0.033	0.0056	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Carbazole	<0.17		0.17	0.084	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Fluoranthene	<0.033		0.033	0.0063	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Pyrene	0.0070	J	0.033	0.0067	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Benzo[a]anthracene	0.0061	J	0.033	0.0045	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.033		0.033	0.0092	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Benzo[b]fluoranthene	<0.033		0.033	0.0073	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Benzo[k]fluoranthene	<0.033		0.033	0.0099	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Benzo[a]pyrene	<0.033		0.033	0.0065	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0087	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0065	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	02/15/16 19:10	02/22/16 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	93		25 - 110	02/15/16 19:10	02/22/16 19:38	1
Phenol-d5	95		31 - 110	02/15/16 19:10	02/22/16 19:38	1
Nitrobenzene-d5	85		25 - 115	02/15/16 19:10	02/22/16 19:38	1
2-Fluorobiphenyl	75		25 - 119	02/15/16 19:10	02/22/16 19:38	1
2,4,6-Tribromophenol	81		35 - 137	02/15/16 19:10	02/22/16 19:38	1
Terphenyl-d14	109		36 - 134	02/15/16 19:10	02/22/16 19:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.0	0.22	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Arsenic	5.4		0.52	0.24	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Barium	4.6		0.52	0.095	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Beryllium	0.22		0.21	0.045	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Boron	4.7		2.6	0.36	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Cadmium	0.036	J	0.10	0.030	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Calcium	100000	B	100	33	mg/Kg	☼	02/16/16 15:54	02/19/16 18:53	10
Chromium	4.9	B	0.52	0.089	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Cobalt	5.4		0.26	0.059	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Copper	13		0.52	0.11	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Iron	8900		10	4.0	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Lead	7.6		0.26	0.13	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Magnesium	38000		5.2	2.1	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Manganese	430	B	0.52	0.10	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Nickel	13		0.52	0.14	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Potassium	660		26	4.2	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Selenium	0.50	J	0.52	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Sodium	150		52	6.8	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Vanadium	10		0.26	0.076	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1
Zinc	43		1.0	0.33	mg/Kg	☼	02/16/16 15:54	02/19/16 00:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.073	J	0.50	0.050	mg/L		02/18/16 08:50	02/19/16 05:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 05:53	1
Boron	0.63		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 05:53	1

TestAmerica Chicago

Client Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 93.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 05:53	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:53	1
Cobalt	0.034		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:53	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 05:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 05:53	1
Manganese	1.9		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:53	1
Nickel	0.046		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:53	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 05:53	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 05:53	1
Zinc	0.15	J B	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 05:53	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.025		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 17:08	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 20:16	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 20:16	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 14:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016	0.0083	mg/Kg	☼	02/16/16 16:00	02/17/16 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			02/17/16 16:19	1

Definitions/Glossary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

GC/MS VOA

Analysis Batch: 323326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	8260B	323382
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	8260B	323382
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	8260B	323382
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	8260B	323382
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	8260B	323382
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	8260B	323382
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	8260B	323382
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	8260B	323382
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	8260B	323382
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	8260B	323382
LCS 500-323326/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323326/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323326/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 323382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	5035	
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	5035	
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	5035	
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	5035	
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	5035	
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	5035	
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	5035	
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	5035	
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	5035	
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	5035	
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	5035	

Analysis Batch: 323512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	8260B	323382
LCS 500-323512/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 500-323512/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 500-323512/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 322939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	3541	
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	3541	
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	3541	
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	3541	
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	3541	
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	3541	
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	3541	
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	3541	
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	3541	
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	3541	
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	3541	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

GC/MS Semi VOA (Continued)

Prep Batch: 322939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-322939/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-322939/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 323792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	8270D	322939
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	8270D	322939
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	8270D	322939
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	8270D	322939
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	8270D	322939
LCS 500-322939/2-A	Lab Control Sample	Total/NA	Solid	8270D	322939
MB 500-322939/1-A	Method Blank	Total/NA	Solid	8270D	322939

Analysis Batch: 323919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	8270D	322939
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	8270D	322939
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	8270D	322939
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	8270D	322939
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	8270D	322939
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	8270D	322939

Metals

Prep Batch: 323075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	7471B	
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	7471B	
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	7471B	
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	7471B	
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	7471B	
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	7471B	
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	7471B	
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	7471B	
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	7471B	
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	7471B	
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	7471B	
LCS 500-323075/13-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 500-323075/12-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 323092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	3050B	
500-107588-1 DU	2746-01-B13 (0-8)	Total/NA	Solid	3050B	
500-107588-1 MS	2746-01-B13 (0-8)	Total/NA	Solid	3050B	
500-107588-1 MSD	2746-01-B13 (0-8)	Total/NA	Solid	3050B	
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	3050B	
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	3050B	
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	3050B	
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	3050B	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Metals (Continued)

Prep Batch: 323092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	3050B	
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	3050B	
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	3050B	
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	3050B	
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	3050B	
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	3050B	
LCS 500-323092/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-323092/1-A	Method Blank	Total/NA	Solid	3050B	

Leach Batch: 323096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	TCLP	Solid	1311	
500-107588-2	2746-01-B13 (8-15)	TCLP	Solid	1311	
500-107588-2 DU	2746-01-B13 (8-15)	TCLP	Solid	1311	
500-107588-2 MS	2746-01-B13 (8-15)	TCLP	Solid	1311	
500-107588-3	2746-01-B12 (0-8)	TCLP	Solid	1311	
500-107588-4	2746-01-B12 (8-16)	TCLP	Solid	1311	
500-107588-5	2746-01-B12 (16-24)	TCLP	Solid	1311	
500-107588-6	2746-01-B12 (24-30)	TCLP	Solid	1311	
500-107588-7	2746-01-B11 (0-7)	TCLP	Solid	1311	
500-107588-8	2746-01-B11 (7-14)	TCLP	Solid	1311	
500-107588-8 DU	2746-01-B11 (7-14)	TCLP	Solid	1311	
500-107588-8 MS	2746-01-B11 (7-14)	TCLP	Solid	1311	
500-107588-9	2746-01-B11 (14-20)	TCLP	Solid	1311	
500-107588-10	2746-01-B10 (0-6)	TCLP	Solid	1311	
500-107588-11	2746-01-B10 (6-11)	TCLP	Solid	1311	
LB 500-323096/1-B	Method Blank	TCLP	Solid	1311	
LB 500-323096/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 323274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	7471B	323075
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	7471B	323075
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	7471B	323075
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	7471B	323075
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	7471B	323075
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	7471B	323075
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	7471B	323075
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	7471B	323075
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	7471B	323075
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	7471B	323075
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	7471B	323075
LCS 500-323075/13-A	Lab Control Sample	Total/NA	Solid	7471B	323075
MB 500-323075/12-A	Method Blank	Total/NA	Solid	7471B	323075

Leach Batch: 323287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	SPLP East	Solid	1312	
500-107588-2	2746-01-B13 (8-15)	SPLP East	Solid	1312	
500-107588-3	2746-01-B12 (0-8)	SPLP East	Solid	1312	
500-107588-3 DU	2746-01-B12 (0-8)	SPLP East	Solid	1312	

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Metals (Continued)

Leach Batch: 323287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-3 MS	2746-01-B12 (0-8)	SPLP East	Solid	1312	
500-107588-4	2746-01-B12 (8-16)	SPLP East	Solid	1312	
500-107588-5	2746-01-B12 (16-24)	SPLP East	Solid	1312	
500-107588-6	2746-01-B12 (24-30)	SPLP East	Solid	1312	
500-107588-7	2746-01-B11 (0-7)	SPLP East	Solid	1312	
500-107588-8	2746-01-B11 (7-14)	SPLP East	Solid	1312	
500-107588-9	2746-01-B11 (14-20)	SPLP East	Solid	1312	
500-107588-10	2746-01-B10 (0-6)	SPLP East	Solid	1312	
500-107588-11	2746-01-B10 (6-11)	SPLP East	Solid	1312	
LB 500-323287/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 323348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	TCLP	Solid	3010A	323096
500-107588-2	2746-01-B13 (8-15)	TCLP	Solid	3010A	323096
500-107588-3	2746-01-B12 (0-8)	TCLP	Solid	3010A	323096
500-107588-4	2746-01-B12 (8-16)	TCLP	Solid	3010A	323096
500-107588-5	2746-01-B12 (16-24)	TCLP	Solid	3010A	323096
500-107588-6	2746-01-B12 (24-30)	TCLP	Solid	3010A	323096
500-107588-7	2746-01-B11 (0-7)	TCLP	Solid	3010A	323096
500-107588-8	2746-01-B11 (7-14)	TCLP	Solid	3010A	323096
500-107588-8 DU	2746-01-B11 (7-14)	TCLP	Solid	3010A	323096
500-107588-8 MS	2746-01-B11 (7-14)	TCLP	Solid	3010A	323096
500-107588-9	2746-01-B11 (14-20)	TCLP	Solid	3010A	323096
500-107588-10	2746-01-B10 (0-6)	TCLP	Solid	3010A	323096
500-107588-11	2746-01-B10 (6-11)	TCLP	Solid	3010A	323096
LB 500-323096/1-B	Method Blank	TCLP	Solid	3010A	323096
LCS 500-323348/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 323453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	SPLP East	Solid	3010A	323287
500-107588-2	2746-01-B13 (8-15)	SPLP East	Solid	3010A	323287
500-107588-3	2746-01-B12 (0-8)	SPLP East	Solid	3010A	323287
500-107588-3 DU	2746-01-B12 (0-8)	SPLP East	Solid	3010A	323287
500-107588-3 MS	2746-01-B12 (0-8)	SPLP East	Solid	3010A	323287
500-107588-4	2746-01-B12 (8-16)	SPLP East	Solid	3010A	323287
500-107588-5	2746-01-B12 (16-24)	SPLP East	Solid	3010A	323287
500-107588-6	2746-01-B12 (24-30)	SPLP East	Solid	3010A	323287
500-107588-7	2746-01-B11 (0-7)	SPLP East	Solid	3010A	323287
500-107588-8	2746-01-B11 (7-14)	SPLP East	Solid	3010A	323287
500-107588-9	2746-01-B11 (14-20)	SPLP East	Solid	3010A	323287
500-107588-10	2746-01-B10 (0-6)	SPLP East	Solid	3010A	323287
500-107588-11	2746-01-B10 (6-11)	SPLP East	Solid	3010A	323287
LB 500-323287/1-B	Method Blank	SPLP East	Solid	3010A	323287
LCS 500-323453/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 323463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	TCLP	Solid	7470A	323096
500-107588-2	2746-01-B13 (8-15)	TCLP	Solid	7470A	323096

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Metals (Continued)

Prep Batch: 323463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-2 DU	2746-01-B13 (8-15)	TCLP	Solid	7470A	323096
500-107588-2 MS	2746-01-B13 (8-15)	TCLP	Solid	7470A	323096
500-107588-3	2746-01-B12 (0-8)	TCLP	Solid	7470A	323096
500-107588-4	2746-01-B12 (8-16)	TCLP	Solid	7470A	323096
500-107588-5	2746-01-B12 (16-24)	TCLP	Solid	7470A	323096
500-107588-6	2746-01-B12 (24-30)	TCLP	Solid	7470A	323096
500-107588-7	2746-01-B11 (0-7)	TCLP	Solid	7470A	323096
500-107588-8	2746-01-B11 (7-14)	TCLP	Solid	7470A	323096
500-107588-9	2746-01-B11 (14-20)	TCLP	Solid	7470A	323096
500-107588-10	2746-01-B10 (0-6)	TCLP	Solid	7470A	323096
500-107588-11	2746-01-B10 (6-11)	TCLP	Solid	7470A	323096
LB 500-323096/1-C	Method Blank	TCLP	Solid	7470A	323096
LCS 500-323463/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-323463/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 323523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-1 DU	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-1 MS	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-1 MSD	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	6010B	323092
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	6010B	323092
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	6010B	323092
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	6010B	323092
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	6010B	323092
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	6010B	323092
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	6010B	323092
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	6010B	323092
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	6010B	323092
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	6010B	323092
LCS 500-323092/2-A	Lab Control Sample	Total/NA	Solid	6010B	323092
MB 500-323092/1-A	Method Blank	Total/NA	Solid	6010B	323092

Analysis Batch: 323536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	TCLP	Solid	6020A	323348
500-107588-2	2746-01-B13 (8-15)	TCLP	Solid	6020A	323348
500-107588-3	2746-01-B12 (0-8)	TCLP	Solid	6020A	323348
500-107588-4	2746-01-B12 (8-16)	TCLP	Solid	6020A	323348
500-107588-5	2746-01-B12 (16-24)	TCLP	Solid	6020A	323348
500-107588-6	2746-01-B12 (24-30)	TCLP	Solid	6020A	323348
500-107588-7	2746-01-B11 (0-7)	TCLP	Solid	6020A	323348
500-107588-8	2746-01-B11 (7-14)	TCLP	Solid	6020A	323348
500-107588-8 DU	2746-01-B11 (7-14)	TCLP	Solid	6020A	323348
500-107588-8 MS	2746-01-B11 (7-14)	TCLP	Solid	6020A	323348
500-107588-9	2746-01-B11 (14-20)	TCLP	Solid	6020A	323348
500-107588-10	2746-01-B10 (0-6)	TCLP	Solid	6020A	323348
500-107588-11	2746-01-B10 (6-11)	TCLP	Solid	6020A	323348
LB 500-323096/1-B	Method Blank	TCLP	Solid	6020A	323348
LCS 500-323348/2-A	Lab Control Sample	Total/NA	Solid	6020A	323348

TestAmerica Chicago

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Analysis Batch: 323560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	TCLP	Solid	6010B	323348
500-107588-2	2746-01-B13 (8-15)	TCLP	Solid	6010B	323348
500-107588-3	2746-01-B12 (0-8)	TCLP	Solid	6010B	323348
500-107588-4	2746-01-B12 (8-16)	TCLP	Solid	6010B	323348
500-107588-5	2746-01-B12 (16-24)	TCLP	Solid	6010B	323348
500-107588-6	2746-01-B12 (24-30)	TCLP	Solid	6010B	323348
500-107588-7	2746-01-B11 (0-7)	TCLP	Solid	6010B	323348
500-107588-8	2746-01-B11 (7-14)	TCLP	Solid	6010B	323348
500-107588-8 DU	2746-01-B11 (7-14)	TCLP	Solid	6010B	323348
500-107588-8 MS	2746-01-B11 (7-14)	TCLP	Solid	6010B	323348
500-107588-9	2746-01-B11 (14-20)	TCLP	Solid	6010B	323348
500-107588-10	2746-01-B10 (0-6)	TCLP	Solid	6010B	323348
500-107588-11	2746-01-B10 (6-11)	TCLP	Solid	6010B	323348
LB 500-323096/1-B	Method Blank	TCLP	Solid	6010B	323348
LCS 500-323348/2-A	Lab Control Sample	Total/NA	Solid	6010B	323348

Analysis Batch: 323646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	TCLP	Solid	7470A	323463
500-107588-2	2746-01-B13 (8-15)	TCLP	Solid	7470A	323463
500-107588-2 DU	2746-01-B13 (8-15)	TCLP	Solid	7470A	323463
500-107588-2 MS	2746-01-B13 (8-15)	TCLP	Solid	7470A	323463
500-107588-3	2746-01-B12 (0-8)	TCLP	Solid	7470A	323463
500-107588-4	2746-01-B12 (8-16)	TCLP	Solid	7470A	323463
500-107588-5	2746-01-B12 (16-24)	TCLP	Solid	7470A	323463
500-107588-6	2746-01-B12 (24-30)	TCLP	Solid	7470A	323463
500-107588-7	2746-01-B11 (0-7)	TCLP	Solid	7470A	323463
500-107588-8	2746-01-B11 (7-14)	TCLP	Solid	7470A	323463
500-107588-9	2746-01-B11 (14-20)	TCLP	Solid	7470A	323463
500-107588-10	2746-01-B10 (0-6)	TCLP	Solid	7470A	323463
500-107588-11	2746-01-B10 (6-11)	TCLP	Solid	7470A	323463
LB 500-323096/1-C	Method Blank	TCLP	Solid	7470A	323463
LCS 500-323463/13-A	Lab Control Sample	Total/NA	Solid	7470A	323463
MB 500-323463/12-A	Method Blank	Total/NA	Solid	7470A	323463

Analysis Batch: 323715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-1 DU	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-1 MS	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-1 MSD	2746-01-B13 (0-8)	Total/NA	Solid	6010B	323092
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	6010B	323092
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	6010B	323092
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	6010B	323092
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	6010B	323092
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	6010B	323092
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	6010B	323092
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	6010B	323092
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	6010B	323092
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	6010B	323092

QC Association Summary

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Metals (Continued)

Analysis Batch: 323753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	SPLP East	Solid	6010B	323453
500-107588-2	2746-01-B13 (8-15)	SPLP East	Solid	6010B	323453
500-107588-3	2746-01-B12 (0-8)	SPLP East	Solid	6010B	323453
500-107588-3 DU	2746-01-B12 (0-8)	SPLP East	Solid	6010B	323453
500-107588-3 MS	2746-01-B12 (0-8)	SPLP East	Solid	6010B	323453
500-107588-4	2746-01-B12 (8-16)	SPLP East	Solid	6010B	323453
500-107588-5	2746-01-B12 (16-24)	SPLP East	Solid	6010B	323453
500-107588-6	2746-01-B12 (24-30)	SPLP East	Solid	6010B	323453
500-107588-7	2746-01-B11 (0-7)	SPLP East	Solid	6010B	323453
500-107588-8	2746-01-B11 (7-14)	SPLP East	Solid	6010B	323453
500-107588-9	2746-01-B11 (14-20)	SPLP East	Solid	6010B	323453
500-107588-10	2746-01-B10 (0-6)	SPLP East	Solid	6010B	323453
500-107588-11	2746-01-B10 (6-11)	SPLP East	Solid	6010B	323453
LB 500-323287/1-B	Method Blank	SPLP East	Solid	6010B	323453
LCS 500-323453/2-A	Lab Control Sample	Total/NA	Solid	6010B	323453

General Chemistry

Analysis Batch: 322972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	Moisture	
500-107588-1 DU	2746-01-B13 (0-8)	Total/NA	Solid	Moisture	
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	Moisture	
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	Moisture	
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	Moisture	
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	Moisture	
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	Moisture	
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	Moisture	
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	Moisture	
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	Moisture	
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	Moisture	
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	Moisture	

Analysis Batch: 323341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-107588-1	2746-01-B13 (0-8)	Total/NA	Solid	9045D	
500-107588-2	2746-01-B13 (8-15)	Total/NA	Solid	9045D	
500-107588-3	2746-01-B12 (0-8)	Total/NA	Solid	9045D	
500-107588-4	2746-01-B12 (8-16)	Total/NA	Solid	9045D	
500-107588-5	2746-01-B12 (16-24)	Total/NA	Solid	9045D	
500-107588-6	2746-01-B12 (24-30)	Total/NA	Solid	9045D	
500-107588-7	2746-01-B11 (0-7)	Total/NA	Solid	9045D	
500-107588-8	2746-01-B11 (7-14)	Total/NA	Solid	9045D	
500-107588-9	2746-01-B11 (14-20)	Total/NA	Solid	9045D	
500-107588-10	2746-01-B10 (0-6)	Total/NA	Solid	9045D	
500-107588-11	2746-01-B10 (6-11)	Total/NA	Solid	9045D	

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-122)	DBFM (75-120)	12DCE (70-134)	TOL (75-122)
500-107588-1	2746-01-B13 (0-8)	98	106	109	108
500-107588-2	2746-01-B13 (8-15)	94	105	113	116
500-107588-3	2746-01-B12 (0-8)	98	108	112	109
500-107588-4	2746-01-B12 (8-16)	96	106	110	112
500-107588-5	2746-01-B12 (16-24)	91	106	109	114
500-107588-6	2746-01-B12 (24-30)	100	107	116	112
500-107588-7	2746-01-B11 (0-7)	97	105	110	109
500-107588-8	2746-01-B11 (7-14)	98	102	108	112
500-107588-9	2746-01-B11 (14-20)	95	111	112	112
500-107588-10	2746-01-B10 (0-6)	100	110	112	112
500-107588-11	2746-01-B10 (6-11)	98	101	113	111
LCS 500-323326/4	Lab Control Sample	109	103	104	112
LCS 500-323512/4	Lab Control Sample	106	102	102	112
LCSD 500-323326/5	Lab Control Sample Dup	107	102	107	110
LCSD 500-323512/5	Lab Control Sample Dup	104	106	106	108
MB 500-323326/6	Method Blank	99	101	108	111
MB 500-323512/6	Method Blank	101	104	108	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (31-110)	NBZ (25-115)	FBP (25-119)	TBP (35-137)	TPH (36-134)
500-107588-1	2746-01-B13 (0-8)	77	79	67	71	63	104
500-107588-2	2746-01-B13 (8-15)	69	70	64	67	75	108
500-107588-3	2746-01-B12 (0-8)	78	79	72	77	87	116
500-107588-4	2746-01-B12 (8-16)	63	67	56	66	70	131
500-107588-5	2746-01-B12 (16-24)	73	74	67	71	67	132
500-107588-6	2746-01-B12 (24-30)	76	85	59	63	65	94
500-107588-7	2746-01-B11 (0-7)	74	75	66	61	52	79
500-107588-8	2746-01-B11 (7-14)	87	92	75	72	68	95
500-107588-9	2746-01-B11 (14-20)	84	85	77	70	57	93
500-107588-10	2746-01-B10 (0-6)	91	94	82	78	84	135 X
500-107588-11	2746-01-B10 (6-11)	93	95	85	75	81	109
LCS 500-322939/2-A	Lab Control Sample	72	74	71	72	77	92
MB 500-322939/1-A	Method Blank	78	76	71	76	64	94

Surrogate Legend

2FP = 2-Fluorophenol

PHL = Phenol-d5

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TestAmerica Chicago

Surrogate Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

TPH = Terphenyl-d14

1

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QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-323326/6

Matrix: Solid

Analysis Batch: 323326

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/18/16 11:00	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/18/16 11:00	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/18/16 11:00	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/18/16 11:00	1
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/18/16 11:00	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/18/16 11:00	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/18/16 11:00	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/18/16 11:00	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/18/16 11:00	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/18/16 11:00	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/18/16 11:00	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/18/16 11:00	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/18/16 11:00	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/18/16 11:00	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/18/16 11:00	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/18/16 11:00	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/18/16 11:00	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/18/16 11:00	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/18/16 11:00	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/18/16 11:00	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/18/16 11:00	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/18/16 11:00	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/18/16 11:00	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/18/16 11:00	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/18/16 11:00	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/18/16 11:00	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/18/16 11:00	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/18/16 11:00	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/18/16 11:00	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/18/16 11:00	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/18/16 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		02/18/16 11:00	1
Dibromofluoromethane	101		75 - 120		02/18/16 11:00	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		02/18/16 11:00	1
Toluene-d8 (Surr)	111		75 - 122		02/18/16 11:00	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323326/4

Matrix: Solid

Analysis Batch: 323326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0510		mg/Kg		102	50 - 133
Benzene	0.0500	0.0512		mg/Kg		102	70 - 120
Bromodichloromethane	0.0500	0.0491		mg/Kg		98	69 - 120
Bromoform	0.0500	0.0500		mg/Kg		100	51 - 127
Bromomethane	0.0500	0.0364		mg/Kg		73	69 - 120
2-Butanone (MEK)	0.0500	0.0530		mg/Kg		106	50 - 148
Carbon disulfide	0.0500	0.0501		mg/Kg		100	58 - 120
Carbon tetrachloride	0.0500	0.0501		mg/Kg		100	51 - 124
Chlorobenzene	0.0500	0.0535		mg/Kg		107	70 - 120
Chloroethane	0.0500	0.0412		mg/Kg		82	49 - 125
Chloroform	0.0500	0.0511		mg/Kg		102	70 - 120
Chloromethane	0.0500	0.0491		mg/Kg		98	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0520		mg/Kg		104	70 - 120
Dibromochloromethane	0.0500	0.0524		mg/Kg		105	69 - 126
1,1-Dichloroethane	0.0500	0.0523		mg/Kg		105	70 - 120
1,2-Dichloroethane	0.0500	0.0524		mg/Kg		105	70 - 128
1,1-Dichloroethene	0.0500	0.0531		mg/Kg		106	67 - 120
1,2-Dichloropropane	0.0500	0.0530		mg/Kg		106	70 - 120
Ethylbenzene	0.0500	0.0540		mg/Kg		108	70 - 120
2-Hexanone	0.0500	0.0604		mg/Kg		121	50 - 150
Methylene Chloride	0.0500	0.0526		mg/Kg		105	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0606		mg/Kg		121	50 - 150
Methyl tert-butyl ether	0.0500	0.0544		mg/Kg		109	70 - 120
Styrene	0.0500	0.0535		mg/Kg		107	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0545		mg/Kg		109	70 - 133
Tetrachloroethene	0.0500	0.0547		mg/Kg		109	70 - 120
Toluene	0.0500	0.0536		mg/Kg		107	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 120
1,1,1-Trichloroethane	0.0500	0.0497		mg/Kg		99	70 - 120
1,1,2-Trichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120
Trichloroethene	0.0500	0.0527		mg/Kg		105	70 - 120
Vinyl acetate	0.0500	0.0854 *		mg/Kg		171	60 - 150
Vinyl chloride	0.0500	0.0465		mg/Kg		93	69 - 120
Xylenes, Total	0.100	0.109		mg/Kg		109	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 122
Dibromofluoromethane	103		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		70 - 134
Toluene-d8 (Surr)	112		75 - 122

Lab Sample ID: LCSD 500-323326/5

Matrix: Solid

Analysis Batch: 323326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0445		mg/Kg		89	50 - 133	14	30
Benzene	0.0500	0.0529		mg/Kg		106	70 - 120	3	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323326/5
Matrix: Solid
Analysis Batch: 323326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	0.0500	0.0499		mg/Kg		100	69 - 120	2	30
Bromoform	0.0500	0.0486		mg/Kg		97	51 - 127	3	30
Bromomethane	0.0500	0.0379		mg/Kg		76	69 - 120	4	30
2-Butanone (MEK)	0.0500	0.0590		mg/Kg		118	50 - 148	11	30
Carbon disulfide	0.0500	0.0512		mg/Kg		102	58 - 120	2	30
Carbon tetrachloride	0.0500	0.0501		mg/Kg		100	51 - 124	0	30
Chlorobenzene	0.0500	0.0539		mg/Kg		108	70 - 120	1	30
Chloroethane	0.0500	0.0422		mg/Kg		84	49 - 125	2	30
Chloroform	0.0500	0.0528		mg/Kg		106	70 - 120	3	30
Chloromethane	0.0500	0.0511		mg/Kg		102	63 - 126	4	30
cis-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 120	4	30
Dibromochloromethane	0.0500	0.0520		mg/Kg		104	69 - 126	1	30
1,1-Dichloroethane	0.0500	0.0538		mg/Kg		108	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 128	1	30
1,1-Dichloroethene	0.0500	0.0557		mg/Kg		111	67 - 120	5	30
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	70 - 120	1	30
Ethylbenzene	0.0500	0.0542		mg/Kg		108	70 - 120	0	30
2-Hexanone	0.0500	0.0604		mg/Kg		121	50 - 150	0	30
Methylene Chloride	0.0500	0.0541		mg/Kg		108	70 - 120	3	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0601		mg/Kg		120	50 - 150	1	30
Methyl tert-butyl ether	0.0500	0.0564		mg/Kg		113	70 - 120	4	30
Styrene	0.0500	0.0522		mg/Kg		104	70 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0500	0.0546		mg/Kg		109	70 - 133	0	30
Tetrachloroethene	0.0500	0.0556		mg/Kg		111	70 - 120	2	30
Toluene	0.0500	0.0531		mg/Kg		106	70 - 120	1	30
trans-1,2-Dichloroethene	0.0500	0.0518		mg/Kg		104	70 - 120	2	30
1,1,1-Trichloroethane	0.0500	0.0515		mg/Kg		103	70 - 120	4	30
1,1,2-Trichloroethane	0.0500	0.0554		mg/Kg		111	70 - 120	3	30
Trichloroethene	0.0500	0.0543		mg/Kg		109	70 - 120	3	30
Vinyl acetate	0.0500	0.0804 *		mg/Kg		161	60 - 150	6	30
Vinyl chloride	0.0500	0.0474		mg/Kg		95	69 - 120	2	30
Xylenes, Total	0.100	0.108		mg/Kg		108	70 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	107		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		70 - 134
Toluene-d8 (Surr)	110		75 - 122

Lab Sample ID: MB 500-323512/6
Matrix: Solid
Analysis Batch: 323512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0039	mg/Kg			02/19/16 10:48	1
Benzene	<0.0050		0.0050	0.0011	mg/Kg			02/19/16 10:48	1
Bromodichloromethane	<0.0050		0.0050	0.00084	mg/Kg			02/19/16 10:48	1
Bromoform	<0.0050		0.0050	0.0010	mg/Kg			02/19/16 10:48	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-323512/6
Matrix: Solid
Analysis Batch: 323512

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.0050		0.0050	0.0018	mg/Kg			02/19/16 10:48	1
2-Butanone (MEK)	<0.0050		0.0050	0.0018	mg/Kg			02/19/16 10:48	1
Carbon disulfide	<0.0050		0.0050	0.0018	mg/Kg			02/19/16 10:48	1
Carbon tetrachloride	<0.0050		0.0050	0.0011	mg/Kg			02/19/16 10:48	1
Chlorobenzene	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
Chloroethane	<0.0050		0.0050	0.0021	mg/Kg			02/19/16 10:48	1
Chloroform	<0.0050		0.0050	0.00098	mg/Kg			02/19/16 10:48	1
Chloromethane	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
cis-1,2-Dichloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/19/16 10:48	1
cis-1,3-Dichloropropene	<0.0050		0.0050	0.0011	mg/Kg			02/19/16 10:48	1
Dibromochloromethane	<0.0050		0.0050	0.00058	mg/Kg			02/19/16 10:48	1
1,1-Dichloroethane	<0.0050		0.0050	0.0010	mg/Kg			02/19/16 10:48	1
1,2-Dichloroethane	<0.0050		0.0050	0.00074	mg/Kg			02/19/16 10:48	1
1,1-Dichloroethene	<0.0050		0.0050	0.0018	mg/Kg			02/19/16 10:48	1
1,2-Dichloropropane	<0.0050		0.0050	0.0013	mg/Kg			02/19/16 10:48	1
1,3-Dichloropropene, Total	<0.0050		0.0050	0.0014	mg/Kg			02/19/16 10:48	1
Ethylbenzene	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg			02/19/16 10:48	1
Methylene Chloride	<0.0050		0.0050	0.0038	mg/Kg			02/19/16 10:48	1
4-Methyl-2-pentanone (MIBK)	<0.0050		0.0050	0.0010	mg/Kg			02/19/16 10:48	1
Methyl tert-butyl ether	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
Styrene	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
1,1,2,2-Tetrachloroethane	<0.0050		0.0050	0.00079	mg/Kg			02/19/16 10:48	1
Tetrachloroethene	<0.0050		0.0050	0.0010	mg/Kg			02/19/16 10:48	1
Toluene	<0.0050		0.0050	0.0017	mg/Kg			02/19/16 10:48	1
trans-1,2-Dichloroethene	<0.0050		0.0050	0.0013	mg/Kg			02/19/16 10:48	1
trans-1,3-Dichloropropene	<0.0050		0.0050	0.0014	mg/Kg			02/19/16 10:48	1
1,1,1-Trichloroethane	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
1,1,2-Trichloroethane	<0.0050		0.0050	0.00097	mg/Kg			02/19/16 10:48	1
Trichloroethene	<0.0050		0.0050	0.0014	mg/Kg			02/19/16 10:48	1
Vinyl acetate	<0.0050		0.0050	0.0013	mg/Kg			02/19/16 10:48	1
Vinyl chloride	<0.0050		0.0050	0.0012	mg/Kg			02/19/16 10:48	1
Xylenes, Total	<0.010		0.010	0.0019	mg/Kg			02/19/16 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		02/19/16 10:48	1
Dibromofluoromethane	104		75 - 120		02/19/16 10:48	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		02/19/16 10:48	1
Toluene-d8 (Surr)	111		75 - 122		02/19/16 10:48	1

Lab Sample ID: LCS 500-323512/4
Matrix: Solid
Analysis Batch: 323512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0500	0.0386		mg/Kg		77	50 - 133
Benzene	0.0500	0.0487		mg/Kg		97	70 - 120
Bromodichloromethane	0.0500	0.0433		mg/Kg		87	69 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-323512/4

Matrix: Solid

Analysis Batch: 323512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	0.0500	0.0410		mg/Kg		82	51 - 127
Bromomethane	0.0500	0.0316	*	mg/Kg		63	69 - 120
2-Butanone (MEK)	0.0500	0.0443		mg/Kg		89	50 - 148
Carbon disulfide	0.0500	0.0451		mg/Kg		90	58 - 120
Carbon tetrachloride	0.0500	0.0452		mg/Kg		90	51 - 124
Chlorobenzene	0.0500	0.0499		mg/Kg		100	70 - 120
Chloroethane	0.0500	0.0390		mg/Kg		78	49 - 125
Chloroform	0.0500	0.0478		mg/Kg		96	70 - 120
Chloromethane	0.0500	0.0468		mg/Kg		94	63 - 126
cis-1,2-Dichloroethene	0.0500	0.0468		mg/Kg		94	70 - 120
Dibromochloromethane	0.0500	0.0449		mg/Kg		90	69 - 126
1,1-Dichloroethane	0.0500	0.0489		mg/Kg		98	70 - 120
1,2-Dichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128
1,1-Dichloroethene	0.0500	0.0510		mg/Kg		102	67 - 120
1,2-Dichloropropane	0.0500	0.0479		mg/Kg		96	70 - 120
Ethylbenzene	0.0500	0.0515		mg/Kg		103	70 - 120
2-Hexanone	0.0500	0.0502		mg/Kg		100	50 - 150
Methylene Chloride	0.0500	0.0500		mg/Kg		100	70 - 120
4-Methyl-2-pentanone (MIBK)	0.0500	0.0499		mg/Kg		100	50 - 150
Methyl tert-butyl ether	0.0500	0.0488		mg/Kg		98	70 - 120
Styrene	0.0500	0.0480		mg/Kg		96	70 - 120
1,1,2,2-Tetrachloroethane	0.0500	0.0479		mg/Kg		96	70 - 133
Tetrachloroethene	0.0500	0.0502		mg/Kg		100	70 - 120
Toluene	0.0500	0.0502		mg/Kg		100	70 - 120
trans-1,2-Dichloroethene	0.0500	0.0469		mg/Kg		94	70 - 120
1,1,1-Trichloroethane	0.0500	0.0458		mg/Kg		92	70 - 120
1,1,2-Trichloroethane	0.0500	0.0495		mg/Kg		99	70 - 120
Trichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120
Vinyl acetate	0.0500	0.0632		mg/Kg		126	60 - 150
Vinyl chloride	0.0500	0.0435		mg/Kg		87	69 - 120
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 122
Dibromofluoromethane	102		75 - 120
1,2-Dichloroethane-d4 (Surr)	102		70 - 134
Toluene-d8 (Surr)	112		75 - 122

Lab Sample ID: LCSD 500-323512/5

Matrix: Solid

Analysis Batch: 323512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0500	0.0427		mg/Kg		85	50 - 133	10	30
Benzene	0.0500	0.0494		mg/Kg		99	70 - 120	2	30
Bromodichloromethane	0.0500	0.0453		mg/Kg		91	69 - 120	4	30
Bromoform	0.0500	0.0411		mg/Kg		82	51 - 127	0	30
Bromomethane	0.0500	0.0330	*	mg/Kg		66	69 - 120	4	30

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-323512/5

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 323512

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	0.0500	0.0505		mg/Kg		101	50 - 148	13	30
Carbon disulfide	0.0500	0.0473		mg/Kg		95	58 - 120	5	30
Carbon tetrachloride	0.0500	0.0470		mg/Kg		94	51 - 124	4	30
Chlorobenzene	0.0500	0.0487		mg/Kg		97	70 - 120	2	30
Chloroethane	0.0500	0.0370		mg/Kg		74	49 - 125	5	30
Chloroform	0.0500	0.0489		mg/Kg		98	70 - 120	2	30
Chloromethane	0.0500	0.0473		mg/Kg		95	63 - 126	1	30
cis-1,2-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 120	6	30
Dibromochloromethane	0.0500	0.0451		mg/Kg		90	69 - 126	1	30
1,1-Dichloroethane	0.0500	0.0505		mg/Kg		101	70 - 120	3	30
1,2-Dichloroethane	0.0500	0.0499		mg/Kg		100	70 - 128	6	30
1,1-Dichloroethene	0.0500	0.0512		mg/Kg		102	67 - 120	0	30
1,2-Dichloropropane	0.0500	0.0492		mg/Kg		98	70 - 120	3	30
Ethylbenzene	0.0500	0.0497		mg/Kg		99	70 - 120	3	30
2-Hexanone	0.0500	0.0520		mg/Kg		104	50 - 150	3	30
Methylene Chloride	0.0500	0.0502		mg/Kg		100	70 - 120	0	30
4-Methyl-2-pentanone (MIBK)	0.0500	0.0496		mg/Kg		99	50 - 150	0	30
Methyl tert-butyl ether	0.0500	0.0533		mg/Kg		107	70 - 120	9	30
Styrene	0.0500	0.0475		mg/Kg		95	70 - 120	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0482		mg/Kg		96	70 - 133	1	30
Tetrachloroethene	0.0500	0.0503		mg/Kg		101	70 - 120	0	30
Toluene	0.0500	0.0484		mg/Kg		97	70 - 120	4	30
trans-1,2-Dichloroethene	0.0500	0.0486		mg/Kg		97	70 - 120	3	30
1,1,1-Trichloroethane	0.0500	0.0473		mg/Kg		95	70 - 120	3	30
1,1,2-Trichloroethane	0.0500	0.0488		mg/Kg		98	70 - 120	1	30
Trichloroethene	0.0500	0.0507		mg/Kg		101	70 - 120	2	30
Vinyl acetate	0.0500	0.0699		mg/Kg		140	60 - 150	10	30
Vinyl chloride	0.0500	0.0435		mg/Kg		87	69 - 120	0	30
Xylenes, Total	0.100	0.0989		mg/Kg		99	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	104		70 - 122
Dibromofluoromethane	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		70 - 134
Toluene-d8 (Surr)	108		75 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-322939/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 323792

Prep Batch: 322939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.17		0.17	0.074	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.050	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
1,3-Dichlorobenzene	<0.17		0.17	0.037	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg		02/15/16 19:10	02/21/16 17:04	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322939/1-A
Matrix: Solid
Analysis Batch: 323792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<0.17		0.17	0.053	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.041	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2-Chlorophenol	<0.17		0.17	0.057	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Nitrobenzene	<0.033		0.033	0.0083	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.034	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Isophorone	<0.17		0.17	0.037	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,4-Dimethylphenol	<0.33		0.33	0.13	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Hexachlorobutadiene	<0.17		0.17	0.052	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Naphthalene	<0.033		0.033	0.0051	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,4-Dichlorophenol	<0.33		0.33	0.079	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4-Chloroaniline	<0.67		0.67	0.16	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,4,6-Trichlorophenol	<0.33		0.33	0.11	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,4,5-Trichlorophenol	<0.33		0.33	0.076	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Hexachlorocyclopentadiene	<0.67		0.67	0.19	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2-Methylnaphthalene	<0.033		0.033	0.0061	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2-Nitroaniline	<0.17		0.17	0.045	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4-Chloro-3-methylphenol	<0.33		0.33	0.11	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,6-Dinitrotoluene	<0.17		0.17	0.065	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2-Nitrophenol	<0.33		0.33	0.079	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
3-Nitroaniline	<0.33		0.33	0.10	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Dimethyl phthalate	<0.17		0.17	0.043	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,4-Dinitrophenol	<0.67		0.67	0.59	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Acenaphthylene	<0.033		0.033	0.0044	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
2,4-Dinitrotoluene	<0.17		0.17	0.053	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Acenaphthene	<0.033		0.033	0.0060	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Dibenzofuran	<0.17		0.17	0.039	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4-Nitrophenol	<0.67		0.67	0.32	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Fluorene	<0.033		0.033	0.0047	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4-Nitroaniline	<0.33		0.33	0.14	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.044	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Hexachlorobenzene	<0.067		0.067	0.0077	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Diethyl phthalate	<0.17		0.17	0.056	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.039	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Pentachlorophenol	<0.67		0.67	0.53	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
N-Nitrosodiphenylamine	<0.17		0.17	0.039	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
4,6-Dinitro-2-methylphenol	<0.67		0.67	0.27	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Phenanthrene	<0.033		0.033	0.0046	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Anthracene	<0.033		0.033	0.0056	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Carbazole	<0.17		0.17	0.083	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Di-n-butyl phthalate	<0.17		0.17	0.051	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Fluoranthene	<0.033		0.033	0.0062	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Pyrene	<0.033		0.033	0.0066	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Butyl benzyl phthalate	<0.17		0.17	0.063	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Benzo[a]anthracene	<0.033		0.033	0.0045	mg/Kg		02/15/16 19:10	02/21/16 17:04	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-322939/1-A
Matrix: Solid
Analysis Batch: 323792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.033		0.033	0.0091	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.061	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Di-n-octyl phthalate	<0.17		0.17	0.054	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Benzo[b]fluoranthene	<0.033		0.033	0.0072	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Benzo[k]fluoranthene	<0.033		0.033	0.0098	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Benzo[a]pyrene	<0.033		0.033	0.0064	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.0086	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Dibenz(a,h)anthracene	<0.033		0.033	0.0064	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
Benzo[g,h,i]perylene	<0.033		0.033	0.011	mg/Kg		02/15/16 19:10	02/21/16 17:04	1
3 & 4 Methylphenol	<0.17		0.17	0.055	mg/Kg		02/15/16 19:10	02/21/16 17:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		25 - 110	02/15/16 19:10	02/21/16 17:04	1
Phenol-d5	76		31 - 110	02/15/16 19:10	02/21/16 17:04	1
Nitrobenzene-d5	71		25 - 115	02/15/16 19:10	02/21/16 17:04	1
2-Fluorobiphenyl	76		25 - 119	02/15/16 19:10	02/21/16 17:04	1
2,4,6-Tribromophenol	64		35 - 137	02/15/16 19:10	02/21/16 17:04	1
Terphenyl-d14	94		36 - 134	02/15/16 19:10	02/21/16 17:04	1

Lab Sample ID: LCS 500-322939/2-A
Matrix: Solid
Analysis Batch: 323792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenol	1.33	1.06		mg/Kg		80	41 - 110
Bis(2-chloroethyl)ether	1.33	0.997		mg/Kg		75	32 - 110
1,3-Dichlorobenzene	1.33	1.05		mg/Kg		79	44 - 110
1,4-Dichlorobenzene	1.33	1.07		mg/Kg		80	45 - 110
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	48 - 110
2-Methylphenol	1.33	0.978		mg/Kg		73	44 - 110
2,2'-oxybis[1-chloropropane]	1.33	0.689		mg/Kg		52	30 - 115
N-Nitrosodi-n-propylamine	1.33	0.991		mg/Kg		74	24 - 123
Hexachloroethane	1.33	1.05		mg/Kg		79	44 - 110
2-Chlorophenol	1.33	1.06		mg/Kg		79	47 - 114
Nitrobenzene	1.33	1.07		mg/Kg		80	35 - 113
Bis(2-chloroethoxy)methane	1.33	1.07		mg/Kg		80	42 - 110
1,2,4-Trichlorobenzene	1.33	1.18		mg/Kg		88	49 - 110
Isophorone	1.33	1.10		mg/Kg		82	35 - 110
2,4-Dimethylphenol	1.33	1.05		mg/Kg		79	49 - 110
Hexachlorobutadiene	1.33	1.25		mg/Kg		94	47 - 114
Naphthalene	1.33	1.08		mg/Kg		81	48 - 110
2,4-Dichlorophenol	1.33	1.12		mg/Kg		84	53 - 113
4-Chloroaniline	1.33	1.29		mg/Kg		97	16 - 118
2,4,6-Trichlorophenol	1.33	0.891		mg/Kg		67	44 - 118
2,4,5-Trichlorophenol	1.33	0.886		mg/Kg		66	41 - 120
Hexachlorocyclopentadiene	1.33	0.201	J	mg/Kg		15	10 - 110
2-Methylnaphthalene	1.33	1.04		mg/Kg		78	48 - 110

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322939/2-A
Matrix: Solid
Analysis Batch: 323792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1.33	0.942		mg/Kg		71	42 - 122
2-Chloronaphthalene	1.33	0.991		mg/Kg		74	52 - 114
4-Chloro-3-methylphenol	1.33	1.11		mg/Kg		83	52 - 111
2,6-Dinitrotoluene	1.33	1.06		mg/Kg		80	54 - 117
2-Nitrophenol	1.33	1.10		mg/Kg		82	48 - 113
3-Nitroaniline	1.33	0.949		mg/Kg		71	36 - 131
Dimethyl phthalate	1.33	1.02		mg/Kg		76	56 - 113
2,4-Dinitrophenol	2.67	<0.67	*	mg/Kg		5	10 - 110
Acenaphthylene	1.33	0.989		mg/Kg		74	49 - 110
2,4-Dinitrotoluene	1.33	1.03		mg/Kg		77	53 - 122
Acenaphthene	1.33	0.898		mg/Kg		67	46 - 110
Dibenzofuran	1.33	1.00		mg/Kg		75	51 - 119
4-Nitrophenol	2.67	1.60		mg/Kg		60	10 - 157
Fluorene	1.33	0.986		mg/Kg		74	47 - 121
4-Nitroaniline	1.33	1.22		mg/Kg		92	28 - 157
4-Bromophenyl phenyl ether	1.33	1.30		mg/Kg		97	55 - 113
Hexachlorobenzene	1.33	1.30		mg/Kg		97	54 - 114
Diethyl phthalate	1.33	0.991		mg/Kg		74	50 - 128
4-Chlorophenyl phenyl ether	1.33	1.05		mg/Kg		79	53 - 117
Pentachlorophenol	2.67	1.16		mg/Kg		43	10 - 124
N-Nitrosodiphenylamine	1.33	1.19		mg/Kg		89	52 - 111
4,6-Dinitro-2-methylphenol	2.67	0.559	J	mg/Kg		21	10 - 110
Phenanthrene	1.33	1.12		mg/Kg		84	48 - 121
Anthracene	1.33	1.14		mg/Kg		85	48 - 118
Carbazole	1.33	1.26		mg/Kg		94	26 - 188
Di-n-butyl phthalate	1.33	1.14		mg/Kg		86	50 - 128
Fluoranthene	1.33	1.19		mg/Kg		89	48 - 128
Pyrene	1.33	1.10		mg/Kg		83	46 - 114
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	49 - 121
Benzo[a]anthracene	1.33	1.10		mg/Kg		82	49 - 121
Chrysene	1.33	1.17		mg/Kg		88	45 - 118
3,3'-Dichlorobenzidine	1.33	0.959		mg/Kg		72	26 - 128
Bis(2-ethylhexyl) phthalate	1.33	1.08		mg/Kg		81	47 - 133
Di-n-octyl phthalate	1.33	1.16		mg/Kg		87	46 - 138
Benzo[b]fluoranthene	1.33	1.15		mg/Kg		86	54 - 122
Benzo[k]fluoranthene	1.33	1.16		mg/Kg		87	44 - 137
Benzo[a]pyrene	1.33	1.20		mg/Kg		90	53 - 122
Indeno[1,2,3-cd]pyrene	1.33	1.33		mg/Kg		99	49 - 132
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		97	48 - 134
Benzo[g,h,i]perylene	1.33	1.26		mg/Kg		95	52 - 125
3 & 4 Methylphenol	1.33	0.953		mg/Kg		71	37 - 122

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	72		25 - 110
Phenol-d5	74		31 - 110
Nitrobenzene-d5	71		25 - 115
2-Fluorobiphenyl	72		25 - 119
2,4,6-Tribromophenol	77		35 - 137

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-322939/2-A
Matrix: Solid
Analysis Batch: 323792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322939

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	92		36 - 134

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-323092/1-A
Matrix: Solid
Analysis Batch: 323523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323092

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<2.0		2.0	0.42	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Arsenic	<1.0		1.0	0.46	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Barium	<1.0		1.0	0.18	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Beryllium	<0.40		0.40	0.087	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Boron	<5.0		5.0	0.70	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Cadmium	<0.20		0.20	0.058	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Calcium	10.9	J	20	6.4	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Chromium	0.385	J	1.0	0.17	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Cobalt	<0.50		0.50	0.11	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Copper	<1.0		1.0	0.22	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Iron	<20		20	7.7	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Lead	<0.50		0.50	0.25	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Magnesium	<10		10	4.1	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Manganese	0.203	J	1.0	0.20	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Nickel	<1.0		1.0	0.27	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Potassium	<50		50	8.2	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Selenium	<1.0		1.0	0.50	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Silver	<0.50		0.50	0.12	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Sodium	<100		100	13	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Thallium	<1.0		1.0	0.49	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Vanadium	<0.50		0.50	0.15	mg/Kg		02/16/16 15:54	02/18/16 23:25	1
Zinc	<2.0		2.0	0.63	mg/Kg		02/16/16 15:54	02/18/16 23:25	1

Lab Sample ID: LCS 500-323092/2-A
Matrix: Solid
Analysis Batch: 323523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323092

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	50.0	45.4		mg/Kg		91	80 - 120
Arsenic	10.0	8.88		mg/Kg		89	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	4.93		mg/Kg		99	80 - 120
Boron	100	84.2		mg/Kg		84	80 - 120
Cadmium	5.00	4.45		mg/Kg		89	80 - 120
Calcium	1000	986		mg/Kg		99	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Cobalt	50.0	47.2		mg/Kg		94	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Iron	100	110		mg/Kg		110	80 - 120

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-323092/2-A
Matrix: Solid
Analysis Batch: 323523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	9.42		mg/Kg		94	80 - 120
Magnesium	1000	962		mg/Kg		96	80 - 120
Manganese	50.0	48.2		mg/Kg		96	80 - 120
Nickel	50.0	47.1		mg/Kg		94	80 - 120
Potassium	1000	965		mg/Kg		96	80 - 120
Selenium	10.0	8.30		mg/Kg		83	80 - 120
Silver	5.00	4.41		mg/Kg		88	80 - 120
Sodium	1000	997		mg/Kg		100	80 - 120
Thallium	10.0	8.88		mg/Kg		89	80 - 120
Vanadium	50.0	47.9		mg/Kg		96	80 - 120
Zinc	50.0	46.8		mg/Kg		94	80 - 120

Lab Sample ID: 500-107588-1 MS
Matrix: Solid
Analysis Batch: 323523

Client Sample ID: 2746-01-B13 (0-8)
Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<1.1	F1	27.6	7.14	F1	mg/Kg	☼	26	75 - 125
Arsenic	2.6		5.52	7.07		mg/Kg	☼	81	75 - 125
Barium	18		110	115		mg/Kg	☼	87	75 - 125
Beryllium	0.35		2.76	2.76		mg/Kg	☼	87	75 - 125
Boron	5.6	F1	55.2	44.7	F1	mg/Kg	☼	71	75 - 125
Cadmium	0.056	J	2.76	2.26		mg/Kg	☼	80	75 - 125
Chromium	11	B	11.0	20.8		mg/Kg	☼	87	75 - 125
Cobalt	3.7		27.6	32.0		mg/Kg	☼	102	75 - 125
Copper	15		13.8	27.9		mg/Kg	☼	92	75 - 125
Iron	11000		55.2	11400	4	mg/Kg	☼	753	75 - 125
Lead	27	F2	5.52	22.3	4	mg/Kg	☼	-90	75 - 125
Magnesium	25000		552	21200	4	mg/Kg	☼	-745	75 - 125
Manganese	230	F2 B	27.6	246	4	mg/Kg	☼	43	75 - 125
Nickel	11		27.6	40.0		mg/Kg	☼	104	75 - 125
Potassium	970	F1	552	1940	F1	mg/Kg	☼	177	75 - 125
Selenium	<0.54		5.52	4.20		mg/Kg	☼	76	75 - 125
Silver	<0.27		2.76	2.16		mg/Kg	☼	78	75 - 125
Sodium	310		552	910		mg/Kg	☼	108	75 - 125
Thallium	<0.54		5.52	4.63		mg/Kg	☼	84	75 - 125
Vanadium	15		27.6	40.5		mg/Kg	☼	94	75 - 125
Zinc	54		27.6	83.2		mg/Kg	☼	106	75 - 125

Lab Sample ID: 500-107588-1 MS
Matrix: Solid
Analysis Batch: 323715

Client Sample ID: 2746-01-B13 (0-8)
Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	50000	B	552	48600	4	mg/Kg	☼	-184	75 - 125

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107588-1 MSD

Matrix: Solid
Analysis Batch: 323523

Client Sample ID: 2746-01-B13 (0-8)

Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Antimony	<1.1	F1	26.2	6.02	F1	mg/Kg	☼	23	75 - 125	17	20	
Arsenic	2.6		5.25	7.79		mg/Kg	☼	99	75 - 125	10	20	
Barium	18		105	114		mg/Kg	☼	91	75 - 125	1	20	
Beryllium	0.35		2.62	2.64		mg/Kg	☼	87	75 - 125	4	20	
Boron	5.6	F1	52.5	41.9	F1	mg/Kg	☼	69	75 - 125	6	20	
Cadmium	0.056	J	2.62	2.12		mg/Kg	☼	78	75 - 125	7	20	
Chromium	11	B	10.5	19.6		mg/Kg	☼	79	75 - 125	6	20	
Cobalt	3.7		26.2	31.3		mg/Kg	☼	105	75 - 125	2	20	
Copper	15		13.1	29.1		mg/Kg	☼	105	75 - 125	4	20	
Iron	11000		52.5	13500	4	mg/Kg	☼	4846	75 - 125	17	20	
Lead	27	F2	5.25	27.8	4 F2	mg/Kg	☼	9	75 - 125	22	20	
Magnesium	25000		525	22300	4	mg/Kg	☼	-581	75 - 125	5	20	
Manganese	230	F2 B	26.2	357	4 F2	mg/Kg	☼	469	75 - 125	37	20	
Nickel	11		26.2	40.0		mg/Kg	☼	109	75 - 125	0	20	
Potassium	970	F1	525	1920	F1	mg/Kg	☼	181	75 - 125	1	20	
Selenium	<0.54		5.25	4.06		mg/Kg	☼	77	75 - 125	4	20	
Silver	<0.27		2.62	2.05		mg/Kg	☼	78	75 - 125	5	20	
Sodium	310		525	866		mg/Kg	☼	105	75 - 125	5	20	
Thallium	<0.54		5.25	4.65		mg/Kg	☼	89	75 - 125	0	20	
Vanadium	15		26.2	40.2		mg/Kg	☼	97	75 - 125	1	20	
Zinc	54		26.2	83.2		mg/Kg	☼	112	75 - 125	0	20	

Lab Sample ID: 500-107588-1 MSD

Matrix: Solid
Analysis Batch: 323715

Client Sample ID: 2746-01-B13 (0-8)

Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Calcium	50000	B	525	51300	4	mg/Kg	☼	320	75 - 125	5	20	

Lab Sample ID: 500-107588-1 DU

Matrix: Solid
Analysis Batch: 323523

Client Sample ID: 2746-01-B13 (0-8)

Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<1.1	F1	<1.0		mg/Kg	☼	NC	20
Arsenic	2.6		2.16		mg/Kg	☼	18	20
Barium	18		25.2	F3	mg/Kg	☼	31	20
Beryllium	0.35		0.372		mg/Kg	☼	6	20
Boron	5.6	F1	4.28	F5	mg/Kg	☼	26	20
Cadmium	0.056	J	0.0846	J F5	mg/Kg	☼	41	20
Chromium	11	B	10.8		mg/Kg	☼	4	20
Cobalt	3.7		3.80		mg/Kg	☼	2	20
Copper	15		16.7		mg/Kg	☼	9	20
Iron	11000		10200		mg/Kg	☼	7	20
Lead	27	F2	33.1		mg/Kg	☼	19	20
Magnesium	25000		19800	F3	mg/Kg	☼	24	20
Manganese	230	F2 B	200		mg/Kg	☼	16	20
Nickel	11		12.3		mg/Kg	☼	7	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107588-1 DU
Matrix: Solid
Analysis Batch: 323523

Client Sample ID: 2746-01-B13 (0-8)
Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Potassium	970	F1	932		mg/Kg	☼	4	20
Selenium	<0.54		0.374	J	mg/Kg	☼	NC	20
Silver	<0.27		<0.26		mg/Kg	☼	NC	20
Sodium	310		384		mg/Kg	☼	20	20
Thallium	<0.54		<0.52		mg/Kg	☼	NC	20
Vanadium	15		12.2		mg/Kg	☼	18	20
Zinc	54		58.4		mg/Kg	☼	8	20

Lab Sample ID: 500-107588-1 DU
Matrix: Solid
Analysis Batch: 323715

Client Sample ID: 2746-01-B13 (0-8)
Prep Type: Total/NA
Prep Batch: 323092

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	50000	B	47500		mg/Kg	☼	4	20

Lab Sample ID: LCS 500-323348/2-A
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.0500	0.0475		mg/L	95	80 - 120	
Boron	1.00	0.900		mg/L	90	80 - 120	
Cadmium	0.0500	0.0467		mg/L	93	80 - 120	
Chromium	0.200	0.190		mg/L	95	80 - 120	
Cobalt	0.500	0.476		mg/L	95	80 - 120	
Iron	1.00	0.976		mg/L	98	80 - 120	
Lead	0.100	0.0935		mg/L	94	80 - 120	
Manganese	0.500	0.493		mg/L	99	80 - 120	
Nickel	0.500	0.474		mg/L	95	80 - 120	
Selenium	0.100	0.0895		mg/L	89	80 - 120	
Silver	0.0500	0.0481		mg/L	96	80 - 120	
Zinc	0.500	0.466	J	mg/L	93	80 - 120	

Lab Sample ID: LCS 500-323453/2-A
Matrix: Solid
Analysis Batch: 323753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	0.100	0.104		mg/L	104	80 - 120	
Manganese	0.500	0.540		mg/L	108	80 - 120	
Zinc	0.500	0.524		mg/L	105	80 - 120	

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB 500-323096/1-B
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323348

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 03:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/18/16 08:50	02/19/16 03:40	1
Boron	<0.50		0.50	0.050	mg/L		02/18/16 08:50	02/19/16 03:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 08:50	02/19/16 03:40	1
Chromium	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:40	1
Cobalt	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:40	1
Iron	<0.40		0.40	0.20	mg/L		02/18/16 08:50	02/19/16 03:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 08:50	02/19/16 03:40	1
Manganese	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:40	1
Nickel	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:40	1
Selenium	<0.050		0.050	0.020	mg/L		02/18/16 08:50	02/19/16 03:40	1
Silver	<0.025		0.025	0.010	mg/L		02/18/16 08:50	02/19/16 03:40	1
Zinc	0.135	J	0.50	0.020	mg/L		02/18/16 08:50	02/19/16 03:40	1

Lab Sample ID: 500-107588-8 MS
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: 2746-01-B11 (7-14)
Prep Type: TCLP
Prep Batch: 323348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	0.35	J	0.500	0.840		mg/L		97	50 - 150
Beryllium	<0.0040		0.0500	0.0486		mg/L		97	50 - 150
Boron	<0.50		1.00	0.994		mg/L		99	50 - 150
Cadmium	<0.0050		0.0500	0.0470		mg/L		94	50 - 150
Chromium	<0.025		0.200	0.186		mg/L		93	50 - 150
Cobalt	0.022	J	0.500	0.480		mg/L		92	50 - 150
Iron	<0.40		1.00	0.961		mg/L		96	50 - 150
Lead	<0.0075		0.100	0.0917		mg/L		92	50 - 150
Manganese	2.4		0.500	2.94	4	mg/L		102	50 - 150
Nickel	0.034		0.500	0.487		mg/L		91	50 - 150
Selenium	<0.050		0.100	0.104		mg/L		104	50 - 150
Silver	<0.025		0.0500	0.0523		mg/L		105	50 - 150
Zinc	0.059	J B	0.500	0.522		mg/L		93	50 - 150

Lab Sample ID: 500-107588-8 DU
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: 2746-01-B11 (7-14)
Prep Type: TCLP
Prep Batch: 323348

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.35	J	0.354	J	mg/L		0.1	20
Beryllium	<0.0040		<0.0040		mg/L		NC	20
Boron	<0.50		<0.50		mg/L		NC	20
Cadmium	<0.0050		<0.0050		mg/L		NC	20
Chromium	<0.025		<0.025		mg/L		NC	20
Cobalt	0.022	J	0.0224	J	mg/L		2	20
Iron	<0.40		<0.40		mg/L		NC	20
Lead	<0.0075		<0.0075		mg/L		NC	20
Manganese	2.4		2.44		mg/L		0.5	20
Nickel	0.034		0.0348		mg/L		1	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-107588-8 DU
Matrix: Solid
Analysis Batch: 323560

Client Sample ID: 2746-01-B11 (7-14)
Prep Type: TCLP
Prep Batch: 323348

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Selenium	<0.050		<0.050		mg/L		NC	20
Silver	<0.025		<0.025		mg/L		NC	20
Zinc	0.059	J B	0.0588	J	mg/L		0.3	20

Lab Sample ID: LB 500-323287/1-B
Matrix: Solid
Analysis Batch: 323753

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 323453

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/18/16 16:28	02/19/16 14:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/18/16 16:28	02/19/16 14:44	1
Manganese	<0.025		0.025	0.010	mg/L		02/18/16 16:28	02/19/16 14:44	1
Zinc	0.0301	J	0.10	0.020	mg/L		02/18/16 16:28	02/19/16 14:44	1

Lab Sample ID: 500-107588-3 MS
Matrix: Solid
Analysis Batch: 323753

Client Sample ID: 2746-01-B12 (0-8)
Prep Type: SPLP East
Prep Batch: 323453

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Manganese	0.061		0.500	0.643		mg/L		116	50 - 150

Lab Sample ID: 500-107588-3 DU
Matrix: Solid
Analysis Batch: 323753

Client Sample ID: 2746-01-B12 (0-8)
Prep Type: SPLP East
Prep Batch: 323453

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Manganese	0.061		0.0621		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-323348/2-A
Matrix: Solid
Analysis Batch: 323536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323348

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.500	0.427		mg/L		85	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LB 500-323096/1-B
Matrix: Solid
Analysis Batch: 323536

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 323348

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		02/18/16 08:50	02/18/16 18:58	1
Thallium	<0.0020		0.0020	0.0020	mg/L		02/18/16 08:50	02/18/16 18:58	1

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-107588-8 MS

Matrix: Solid
Analysis Batch: 323536

Client Sample ID: 2746-01-B11 (7-14)

Prep Type: TCLP
Prep Batch: 323348

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0060		0.500	0.396		mg/L		79	50 - 150
Thallium	<0.0020		0.100	0.0943		mg/L		94	50 - 150

Lab Sample ID: 500-107588-8 DU

Matrix: Solid
Analysis Batch: 323536

Client Sample ID: 2746-01-B11 (7-14)

Prep Type: TCLP
Prep Batch: 323348

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0060		<0.0060		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-323463/12-A

Matrix: Solid
Analysis Batch: 323646

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 323463

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 13:55	1

Lab Sample ID: LCS 500-323463/13-A

Matrix: Solid
Analysis Batch: 323646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 323463

Analyte	Spike	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00200	0.00179		mg/L		90	80 - 120

Lab Sample ID: LB 500-323096/1-C

Matrix: Solid
Analysis Batch: 323646

Client Sample ID: Method Blank

Prep Type: TCLP
Prep Batch: 323463

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		02/18/16 16:45	02/19/16 13:59	1

Lab Sample ID: 500-107588-2 MS

Matrix: Solid
Analysis Batch: 323646

Client Sample ID: 2746-01-B13 (8-15)

Prep Type: TCLP
Prep Batch: 323463

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000776		mg/L		78	50 - 150

Lab Sample ID: 500-107588-2 DU

Matrix: Solid
Analysis Batch: 323646

Client Sample ID: 2746-01-B13 (8-15)

Prep Type: TCLP
Prep Batch: 323463

Analyte	Sample	Sample	DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Mercury	<0.00020		<0.00020		mg/L		NC	20

TestAmerica Chicago

QC Sample Results

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-323075/12-A
 Matrix: Solid
 Analysis Batch: 323274

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 323075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0088	mg/Kg		02/16/16 16:00	02/17/16 12:35	1

Lab Sample ID: LCS 500-323075/13-A
 Matrix: Solid
 Analysis Batch: 323274

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 323075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.157		mg/Kg		94	80 - 120

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Date Collected: 02/15/16 09:05

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 15:24	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 03:53	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:19	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:01	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 15:58		
					(End)	02/17/16 16:00		
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B13 (0-8)

Lab Sample ID: 500-107588-1

Date Collected: 02/15/16 09:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 15:36	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323792	02/21/16 21:23	GES	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/18/16 23:34	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 17:52	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:39	MJD	TAL CHI

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 15:31	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:16	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:23	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:03	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 16:00 (End) 02/17/16 16:02	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B13 (8-15)

Lab Sample ID: 500-107588-2

Date Collected: 02/15/16 09:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 16:01	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323792	02/21/16 21:52	GES	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:05	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:13	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:55	MJD	TAL CHI

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 15:38	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:23	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:27	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:09	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 16:02 (End) 02/17/16 16:04	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B12 (0-8)

Lab Sample ID: 500-107588-3

Date Collected: 02/15/16 09:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 16:27	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323792	02/21/16 22:20	GES	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:10	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:17	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:57	MJD	TAL CHI

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Date Collected: 02/15/16 09:50

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 16:20	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:30	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:31	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:11	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 16:04 (End) 02/17/16 16:06	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
 Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (8-16)

Lab Sample ID: 500-107588-4

Date Collected: 02/15/16 09:50

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 16:52	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323792	02/22/16 00:44	GES	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:15	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:28	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 12:59	MJD	TAL CHI

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 16:27	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:36	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:35	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:13	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 16:06		
					(End)	02/17/16 16:09		
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 17:17	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323792	02/22/16 01:13	GES	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:20	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B12 (16-24)

Lab Sample ID: 500-107588-5

Date Collected: 02/15/16 10:03

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:32	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:02	MJD	TAL CHI

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Date Collected: 02/15/16 10:10

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 16:34	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:43	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:39	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:18	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 16:09		
					(End)	02/17/16 16:11		
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B12 (24-30)

Lab Sample ID: 500-107588-6

Date Collected: 02/15/16 10:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 17:42	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 17:13	AJD	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:25	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:36	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:04	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Date Collected: 02/15/16 11:05

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 16:41	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:50	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 19:43	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:20	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 16:11		
					(End)	02/17/16 16:13		
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B11 (0-7)

Lab Sample ID: 500-107588-7

Date Collected: 02/15/16 11:05

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 18:07	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 17:42	AJD	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:30	PJ1	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:06	MJD	TAL CHI

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 16:47	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 04:57	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Analysis	6020A		1	323536	02/18/16 19:48	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:22	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 16:13 (End) 02/17/16 16:15	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B11 (7-14)

Lab Sample ID: 500-107588-8

Date Collected: 02/15/16 11:10

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323512	02/19/16 11:13	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 18:11	AJD	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:35	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:41	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:08	MJD	TAL CHI

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 16:54	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 05:40	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 20:08	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:24	MJD	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 16:15 (End) 02/17/16 16:17	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B11 (14-20)

Lab Sample ID: 500-107588-9

Date Collected: 02/15/16 11:15

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 18:57	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 18:40	AJD	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:40	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:45	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:14	MJD	TAL CHI

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Date Collected: 02/15/16 11:40

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 17:01	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 05:46	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 20:12	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:25	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341	(Start) 02/17/16 16:17 (End) 02/17/16 16:19	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (0-6)

Lab Sample ID: 500-107588-10

Date Collected: 02/15/16 11:40

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 19:22	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 19:09	AJD	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:45	PJ1	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:49	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:16	MJD	TAL CHI

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			323287	02/17/16 14:35	FXG	TAL CHI
SPLP East	Prep	3010A			323453	02/18/16 16:28	JNH	TAL CHI
SPLP East	Analysis	6010B		1	323753	02/19/16 17:08	KML	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6010B		1	323560	02/19/16 05:53	PJ1	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	3010A			323348	02/18/16 08:50	JEF	TAL CHI
TCLP	Analysis	6020A		1	323536	02/18/16 20:16	PFK	TAL CHI
TCLP	Leach	1311			323096	02/16/16 16:00	FXG	TAL CHI
TCLP	Prep	7470A			323463	02/18/16 16:45	MJD	TAL CHI
TCLP	Analysis	7470A		1	323646	02/19/16 14:27	MJD	TAL CHI
Total/NA	Analysis	9045D		1	323341		SMO	TAL CHI
					(Start)	02/17/16 16:19		
					(End)	02/17/16 16:22		
Total/NA	Analysis	Moisture		1	322972	02/16/16 07:36	LWN	TAL CHI

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			323382	02/15/16 14:20	BDW	TAL CHI
Total/NA	Analysis	8260B		1	323326	02/18/16 19:47	BDW	TAL CHI
Total/NA	Prep	3541			322939	02/15/16 19:10	LLH	TAL CHI
Total/NA	Analysis	8270D		1	323919	02/22/16 19:38	AJD	TAL CHI
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		1	323523	02/19/16 00:50	PJ1	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Client Sample ID: 2746-01-B10 (6-11)

Lab Sample ID: 500-107588-11

Date Collected: 02/15/16 11:45

Matrix: Solid

Date Received: 02/15/16 14:00

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			323092	02/16/16 15:54	JNH	TAL CHI
Total/NA	Analysis	6010B		10	323715	02/19/16 18:53	KML	TAL CHI
Total/NA	Prep	7471B			323075	02/16/16 16:00	MJD	TAL CHI
Total/NA	Analysis	7471B		1	323274	02/17/16 13:18	MJD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Ecology and Environment, Inc.
Project/Site: IDOT - Interstate 90 - WO 005

TestAmerica Job ID: 500-107588-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Antimony
6020A	3010A	Solid	Thallium
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5200



500-107588 COC

Report To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

Bill To (optional)
Contact: _____
Company: _____
Address: _____
Address: _____
Phone: _____
Fax: _____
PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107588

Chain of Custody Number: _____

Page 1 of 2

Temperature °C of Cooler: 0.5

Client		Client Project #		Preservative		Parameter												Preservative Key	
E+E		1009341.0005.01																1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix												Comments	
I-90																			
Project Location/State		Lab PM		Date		Time													
Cook County, IL		D. Wright																	
Lab ID	MS/MSD	Sample ID		Sampling															
1		2746-01-B13(0-8)		2/15/16	0905	2	5	X	X	X	X	X	X						
2		2746-01-B13(8-15)		2/15	0910	2	5	X	X	X	X	X	X						
3		2746-01-B12(0-8)		2/15	0945	2	5	X	X	X	X	X	X						
4		2746-01-B12(8-16)		2/15	0950	2	5	X	X	X	X	X	X						
5		2746-01-B12(16-24)		2/15	1003	2	5	X	X	X	X	X	X						
6		2746-01-B12(24-30)		2/15	1010	2	5	X	X	X	X	X	X						
7		2746-01-B11(0-7)		2/15	1105	2	5	X	X	X	X	X	X						
8		2746-01-B11(7-14)		2/15	1110	2	5	X	X	X	X	X	X						
9		2746-01-B11(14-20)		2/15	1115	2	5	X	X	X	X	X	X						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>D. Wright</u> Company E+E Date 2/15/16 Time 1300	Received By <u>Daniel Becker</u> Company TA Date 2/15/16 Time 1300
Relinquished By <u>Daniel Becker</u> Company TA Date 2/15/16 Time 14:00	Received By <u>Shawn Scott</u> Company TA-CHI Date 2/15/16 Time 1400

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments: _____

Lab Comments: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-107588
 Chain of Custody Number: _____
 Page 2 of 2
 Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
E+E		1009341.0005.01									
Project Name		Lab Project #		# of Containers		Total Metals		TCLP/SLP		pH/Percent Solids	
I-90		50011818		VOC		SVOC		Metals		Solids	
Project Location/State		Lab PM		Date		Time		Matrix		Comments	
Cook County, IL		Dick Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
10		2746-01-B10C0-6)	2/15/16	1140	25	X	X	X	X	X	
11		2746-01-B10C6-11)	2/15/16	1145	25	X	X	X	X	X	
(A large diagonal line is drawn across the remaining rows of the table.)											

- Preservative Key**
1. HCL, Cool to 4°
 2. H2SO4, Cool to 4°
 3. HNO3, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. NaHSO4
 7. Cool to 4°
 8. None
 9. Other

Turnaround Time Required (Business Days) 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other _____

Requested Due Date _____

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>J. Hughes</u> Company: <u>E+E</u> Date: <u>2/15/16</u> Time: <u>13:00</u>	Received By: <u>Dave Beaman</u> Company: <u>TA</u> Date: <u>2/15/16</u> Time: <u>5:00</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>Dave Beaman</u> Company: <u>TA</u> Date: <u>2/15/16</u> Time: <u>14:00</u>	Received By: <u>Sherrill</u> Company: <u>TA-OTL</u> Date: <u>2/15/16</u> Time: <u>1400</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

- Matrix Key**
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: Ecology and Environment, Inc.

Job Number: 500-107588-1

Login Number: 107588

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/5/16

Direction: West

Time: 1344

Description: Placard shows the location of 2746-01-B01



Site: ISGS #2746-01 IDOT ROW

Date: 2/5/16

Direction: West

Time: 1343

Description: Placard shows the location of 2746-01-B02



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/5/16

Direction: West

Time: 1201

Description: Placard shows the location of 2746-01-B03



Site: ISGS #2746-01 IDOT ROW

Date: 2/5/16

Direction: West

Time: 1131

Description: Placard shows the location of 2746-01-B04



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/12/16

Direction: East

Time: 0945

Description: Placard shows the location of 2746-01-B05



Site: ISGS #2746-01 IDOT ROW

Date: : 2/12/16

Direction: East

Time: 0948

Description: Placard shows the location of 2746-01-B06



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/12/16

Direction: East

Time: 1127

Description: Placard shows the location of 2746-01-B07



Site: ISGS #2746-01 IDOT ROW

Description: Photo not available for 2746-01-B08.

PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/12/16

Direction: East

Time: 1320

Description: Placard shows the location of 2746-01-B09



Site: ISGS #2746-01 IDOT ROW

Date: 2/15/16

Direction: East

Time: 1136

Description: Placard shows the location of 2746-01-B10



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/15/16

Direction: East

Time: 1048

Description: Placard shows the location of 2746-01-B11



Site: ISGS #2746-01 IDOT ROW

Date: 2/15/16

Direction: East

Time: 0955

Description: Placard shows the location of 2746-01-B12



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/15/16

Direction: East

Time: 0923

Description: Placard shows the location of 2746-01-B13



Site: ISGS #2746-01 IDOT ROW

Date: 2/11/16

Direction: East

Time: 1403

Description: Placard shows the location of 2746-01-B14



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/11/16

Direction: East

Time: 1234

Description: Placard shows the location of 2746-01-B15



Site: ISGS #2746-01 IDOT ROW

Date: 2/11/16

Direction: East

Time: 1231

Description: Placard shows the location of 2746-01-B16



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/11/16

Direction: East

Time: 1106

Description: Placard shows the location of 2746-01-B17



Site: ISGS #2746-01 IDOT ROW

Date: 2/11/16

Direction: East

Time: 1104

Description: Placard shows the location of 2746-01-B18



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: Southwest

Time: 1409

Description: Placard shows the location of 2746-01-B19



Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 1354

Description: Placard shows the location of 2746-01-B20



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 1318

Description: Placard shows the location of 2746-01-B21



Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: North

Time: 1416

Description: Placard shows the location of 2746-01-B22



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1358

Description: Placard shows the location of 2746-01-B23



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: West

Time: 1355

Description: Placard shows the location of 2746-01-B24



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: West

Time: 1439

Description: Placard shows the location of 2746-01-B25



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: West

Time: 1236

Description: Placard shows the location of 2746-01-B26



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: West

Time: 1216

Description: Placard shows the location of 2746-01-B27



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 1135

Description: Placard shows the location of 2746-01-B28



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 1107

Description: Placard shows the location of 2746-01-B29



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 1050

Description: Placard shows the location of 2746-01-B30



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 1031

Description: Placard shows the location of 2746-01-B31



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 1021

Description: Placard shows the location of 2746-01-B32



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 0959

Description: Placard shows the location of 2746-01-B33



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: West

Time: 0950

Description: Placard shows the location of 2746-01-B34



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 0936

Description: Placard shows the location of 2746-01-B35



Site: ISGS #2746-01 IDOT ROW

Date: 2/9/16

Direction: East

Time: 0929

Description: Placard shows the location of 2746-01-B36



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/5/16

Direction: West

Time: 1429

Description: Placard shows the location of 2746-01-B37



Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 1154

Description: Placard shows the location of 2746-01-B38



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 1152

Description: Placard shows the location of 2746-01-B39



Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 1123

Description: Placard shows the location of 2746-01-B40



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 0951

Description: Placard shows the location of 2746-01-B41



Site: ISGS #2746-01 IDOT ROW

Date: 2/10/16

Direction: East

Time: 0949

Description: Placard shows the location of 2746-01-B42



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1330

Description: Placard shows the location of 2746-01-B43



Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1259

Description: Placard shows the location of 2746-01-B44



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1155

Description: Placard shows the location of 2746-01-B45



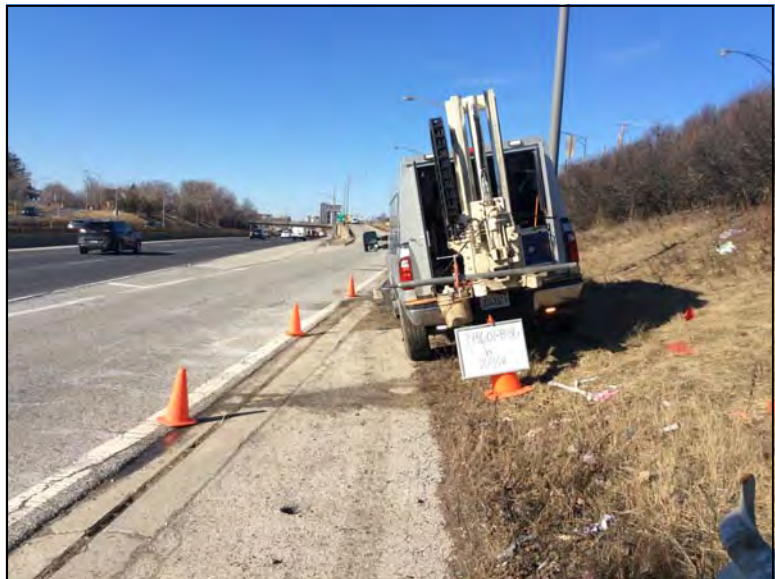
Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1112

Description: Placard shows the location of 2746-01-B46



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1046

Description: Placard shows the location of 2746-01-B47



Site: ISGS #2746-01 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1020

Description: Placard shows the location of 2746-01-B48



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/1/16

Direction: West

Time: 1324

Description: Placard shows the location of 2746-01-B49



Site: ISGS #2746-01 IDOT ROW

Date: 2/1/16

Direction: West

Time: 1235

Description: Placard shows the location of 2746-01-B50



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/1/16

Direction: West

Time: 1206

Description: Placard shows the location of 2746-01-B51



Site: ISGS #2746-01 IDOT ROW

Date: 2/1/16

Direction: West

Time: 1051

Description: Placard shows the location of 2746-01-B52



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 2/1/16

Direction: West

Time: 1018

Description: Placard shows the location of 2746-01-B53



Site: ISGS #2746-01 IDOT ROW

Date: 1/29/16

Direction: West

Time: 1601

Description: Placard shows the location of 2746-01-B54



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 1/29/16

Direction: West

Time: 1511

Description: Placard shows the location of 2746-01-B55



Site: ISGS #2746-01 IDOT ROW

Date: 1/29/16

Direction: West

Time: 1451

Description: Placard shows the location of 2746-01-B56



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01 IDOT ROW

Date: 1/29/16

Direction: West

Time: 1430

Description: Placard shows the location of 2746-01-B57



Site: ISGS #2746-01A IDOT ROW-
Interchange of I-90 and Cumberland
Ave

Date: 2/10/16

Direction: West

Time: 1627

Description: Placard shows the location of 2746-01A-B01



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01A IDOT ROW-
Interchange of I-90 and Cumberland
Ave

Date: 2/9/16
Direction: West
Time: 1303

Description: Placard shows the loca-
tion of 2746-01A-B02



Site: ISGS #2746-01A IDOT ROW-
Interchange of I-90 and Cumberland
Ave

Date: 2/3/16
Direction: West
Time: 1045

Description: Placard shows the loca-
tion of 2746-01A-B03



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01A IDOT ROW-
Interchange of I-90 and Cumberland
Ave

Date: 2/3/16
Direction: West
Time: 1019

Description: Placard shows the loca-
tion of 2746-01A-B04



Site: ISGS #2746-01A IDOT ROW-
Interchange of I-90 and Cumberland
Ave

Date: 2/3/16
Direction: West
Time: 0952

Description: Placard shows the loca-
tion of 2746-01A-B05



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-01B IDOT ROW-
Intersection of I-90 and Canfield
Ave.

Date: 2/10/16
Direction: East
Time: 1030

Description: Placard shows the loca-
tion of 2746-01B-B01



Site: ISGS #2746-01B IDOT ROW-
Intersection of I-90 and Canfield
Ave.

Date: 2/3/16
Direction: East
Time: 1028

Description: Placard shows the loca-
tion of 2746-01B-B02



PHOTOGRAPHIC RECORD

Work Order No: 005A

Route: FAI 90 (Interstate 90)

PTB Number: 176-001

IDOT Project Number: P-91-128-12

Contract Number: 60Y39

Site: ISGS #2746-02 Chicago Transit Authority Tracks

Date: 2/1/16

Direction: West

Time: 1139

Description: Placard shows the location of 2746-02-B01



Site: ISGS #2746-61 IDOT ROW

Date: 2/4/16

Direction: West

Time: 1453

Description: Placard shows the location of 2746-61-B01



E

**Uncontaminated Soil Certification
Form**